User Manual

POC-227G

Intel® Core 2™Duo Processor - based Point of Care Terminal with 22" TFT LCD

ADVANTECH

Enabling an Intelligent Planet

Instructions for the User

The document combines text and illustrations, providing a comprehensive overview of the system. The information is presented as a sequential steps of actions, allowing the user to learn directly how to use the device.

The text provides explanations and instructs the user step-by-step in the practical use of the product, with short, clear instructions in an easy-to-follow sequence.

Definitions

Warning! *A WARNING statement provides important information about a potentially hazardous situation which, if not avoided, could result in death or serious injury.*

Caution! *A CAUTION statement provides important information about a potentially hazardous situation which, if not avoided, may result in minor or moderate injury to the user or patient or in damage to the equipment or other property.*

Note! *A NOTE provides additional information intended to avoid inconveniences during operation.*

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Safety Instructions

Strictly follow these instructions for use; please read these safety instructions carefully.

Keep this user manual for later reference; any use of the product requires full understanding and strict observation of all portions of these instructions. Observe all WARNINGS and CAUTIONS as rendered throughout this manual and on labels on the equipment.

Repair of the device may also only be carried out by trained service personnel. Advantech recommends that a service contract be obtained with Advantech Service and that all repairs also be carried out by them. Otherwise the correct functioning of the device may be compromised.

Warning! *Because of the danger of electric shock, never remove the cover of a device while it is in operation or connected to a power outlet.*

If one of the following situations arises, have the equipment checked by service personnel:

a. The power cord or plug is damaged.
b. Liquid has penetrated the equipment.
c. The equipment has been exposed to moisture.
d. The equipment does not work well, or you cannot get it to work according to the user manual.
e. The equipment has been dropped and damaged.
f. The equipment has obvious signs of breakage.

Disconnect this equipment from any AC outlet before cleaning. Use a damp cloth. Do not use liquid or spray detergents for cleaning and keep this equipment away from humidity.

Caution! *To avoid short-circuits and otherwise damaging the device, do not allow fluids to come in contact with the device. If fluids are accidentally spilled on the equipment, remove the affected unit from service as soon as possible and contact service personnel to verify that patient safety is not compromised.*

Put this equipment on a reliable surface during installation. Dropping it or letting it fall may cause damage. For plug-in equipment, the power outlet socket must be located near the equipment and must be easily accessible.

Caution! *To prevent overheating, it is recommended to install the unit in an upright position. Do not lie it flat on a table and do not cover the openings or place the device in direct sunlight or near radiant heaters.*

Make sure the voltage of the power source is correct before connecting the equipment to the power outlet. Position the power cord so that people cannot step on it. Do not place anything over the power cord. If the equipment is not used for a long time, disconnect it from the power source to avoid damage by transient over voltage.

Caution! *Do not leave this equipment in an uncontrolled environment where the storage temperature is below -20°C (-4°F) or above 60°C (140°F). This may damage the equipment.*

If your computer clock is unable to keep accurate time or the BIOS configuration resets to default, please check the battery.

Caution! *Do not replace the battery yourself. Please contact a qualified technician or your retailer.*

The computer is provided with a battery-powered real-time clock circuit. There is a danger of explosion if battery is incorrectly replaced. Replace only with same or equivalent type recommended by the manufacturer. Discard used batteries according to the manufacturer's instructions.

Improper installation of VESA mounting can result in serious personal injury! VESA mount installation should be completed by a professional technician, please contact the service technician or your retailer if you need this service. The detailed installation procedure is specified in Appendix A.

CLASSIFICATION:

- Supply Class I adapter
- No applied parts
- IPX1
- Continuous operation
- Not AP or APG category

Warning! *This device is not suitable for use in the presence of flammable anesthetic mixtures with air, oxygen, nitrous oxide, or as a life support system.*

Maintenance: To properly maintain and clean the surfaces, use only the approved products or clean with a dry applicator.

Caution! *When servicing the device, always use replacement parts that meet Advantech standards. Advantech Medical cannot warrant or endorse the safe performance of third-party replacement parts for use with our medical device.*

Make sure users do not come in contact with SIP/SOPs and the patient at the same time.

When connecting electrical devices, the operator is responsible for ensuring that the resulting system meets the requirements set forth by the following standards:

EN 60601-1 (IEC 60601-1)

Medical electrical equipment

Part 1: General requirements for safety

EN 60601-1-1 (IEC 60601-1-1)

Medical electrical equipment

Part 1-1: General requirements for safety

Collateral standard: Safety requirements for Medical electrical systems

EN 60601-1-2 (IEC 60601-1-2)

Medical electrical equipment

Part 1-2: General requirements for safety

Collateral standard: Electromagnetic compatibility; Requirements and tests

Medical Equipment
With Respect to Electric Shock,
Fire, and Mechanical Hazards Only,
In Accordance with UL 60601-1,
CAN/CSA C22.2 No. 601.1, and
IEC 60601-1

Accessory equipment connected to the analog and digital interfaces must be in compliance with the respective nationally harmonized IEC standards (i.e. IEC 60950 for data processing equipment, IEC 60065 for video equipment, IEC 61010-1 for laboratory equipment, and IEC 60601-1 for medical equipment). Furthermore all configuration should comply with the system standard IEC 60601-1-1. Anyone who connects additional equipment to the signal input or signal output is configuring a medical system, and is therefore responsible that the system complies with the requirements set forth in standard IEC 60601-1-1. The unit is for exclusive interconnection with IEC 60601-1 certified equipment in the patient environment and IEC 60XXX certified equipment outside of the patient environment. If in doubt, consult the technical services department or your local representative.

FCC Class B

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential environment. This equipment generates, uses, and can radiate radio frequency energy. If not installed and used in accordance with this user's manual, it may cause harmful interference to radio communications.

Note that even when this equipment is installed and used in accordance with this user's manual, there is still no guarantee that interference will not occur. If this equipment is believed to be causing harmful interference to radio or television reception, this can be determined by turning the equipment on and off. If interference is occurring, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment to a power outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Warning! *Any changes or modifications made to the equipment which are not expressly approved by the relevant standards authority could void your authority to operate the equipment.*

List of Accessories

Before installing your Point of Care Terminal, ensure that the following materials have been received:

- POC-227G series Point of Care Terminal
- Accessories for POC-227G
  - CD-ROM disc-"Drivers, User's manual and Utilities"
  - Mounting kits and packet of screws.
  - VESA mounting note x1
  - China RoHs note x1

Warning! *No user serviceable parts inside, refer servicing to qualified personnel. Only the accessories indicated on the list of accessories above have been tested and approved to be used with the device. Accordingly It is strongly recommended that only these accessories be used in conjunction with the specific device. Otherwise the correct functioning of the device may be compromised.*

Additional Information and Assistance

Contact your distributor, sales representative, or Advantech's customer service center for technical support if you need additional assistance. Please have the following information ready before you call:

- Product name and serial number
- Description of your peripheral attachments
- Description of your software (operating system, version, application software, etc.)
- A complete description of the problem
- The exact wording of any error messages
- This equipment is a source of electromagnetic waves. Before use please make sure that there are not EMI sensitive devices in its surrounding which may otherwise malfunction.

Environmental Protection

- Follow national requirements to dispose of unit.

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F.1 Point-of-Care Terminal Cleaning and Disinfecting 100

Chapter 1

General Information

Sections include:

- Introduction
- Specifications
- Dimensions

1.1 Introduction

The POC-227G is a multimedia computer based on the Intel® Core™2 Duo mobile processor that is designed to serve as a Point of Care terminal (POC). It is a PC-based system with 22" color TFT LCD display, single DVI-I port, dual on-board 10/100/1000 PCI-E Ethernet controller, Quad COM ports, five USB 2.0 ports and a 24-bit stereo audio controller. The user-friendly POC-227G computer has an optional, replaceable 2.5" SATA disk drive. This highly integrated multimedia system allows system integrators to easily build a Point of Care terminal into their applications. The POC-227G is an ideal and safe point of care solution for patients and hospital practitioners.

The POC-227G is specially designed to resist spills and water damage, and its protected LCD with sealed ports ensures dust resistance. The high contrast ratio (2000:1) of POC-227G makes it a perfect image terminal for PACS and DICOM applications. The POC-227G is a reliable solution to various application processing requirements.

Intended use - The POC-227G is intended to serve as a Point of Care terminal (POC) for integration with hospital systems. POC-227G medical computing is designed for general purpose use for the hospital environment; data collection and reference display. It is not to be used as a life-supporting system.

The latest version of user's manual is available to be downloaded from http://support.advantech.com.tw/support/

1.2 Specifications

Computing System	Chipset	Intel® GS45 Express Chipset with 82801IUX I/O Controller Hub (ICH9M-SFF)
	CPU	Intel® Core™2 Duo processor SL9400 (6M Cache, 1.86 GHz, 1066 MHz FSB) uFCBGA8
	Front Side Bus	1066 MHz
	Memory	204-pin, DDR3, SO-DIMM slotsx2 (max. **8 GB**), Unbuffered Non ECC * Due to standard PC architecture, a certain amount of memory is reserved for system usage and therefore the actual memory size is less than the stated amount.
Graphics	Controller	Graphics Controller Intel GS45 integrated
Expansion Slot	PCI	1 mini PCI
	PCIe	1 PCIe x4 slot
		1 PCI Express Mini Card (Type IIIA)
Storage	HDD	1 x 2.5 SATA
	Optical Device	1x DVD-RW SATA (Blu-ray* support)
Ethernet	Interface	2 x Gigabit Ethernet (isolated) interfaces (RJ-45)
Identification	1x Smart card reader (USB Interface)	
I/O Ports	3 x RS-232 (isolated) 1 x RS-232/422/485 (isolated) serial port; 5 x USB 2.0 ports; 1 x IEEE 1394 ports 1 x PS/2 mouse and K/B; 1 x DVI-I VGA port; 1 x Mic-in, 1x Line-out	
Speakers	2 x 1 W speakers;	

Display	Display Type	22" P-MVA Mode, Normally Black
	Max. Resolution	1680 x 1050
	Max. Colors	16.2M colors (6-bits + HiFRC)
	Dot Size (mm)	0.282x 0.282
	Viewing Angle	178/1780
	Luminance	300 cd/m^2
	Contrast Ratio	2000 : 1
	LCD MTBF	50,000 hours
	Backlight Lifetime	50,000 hours at 6.5mA
DICOM	Pre-set (optional)	
Power Supply	AC Model	Internal power supply
	Input voltage	100 ~ 240 V_{AC} , 4/2 A max. @ 50 ~ 60 Hz
	Output voltage	+12 VDC, 300 Watts
SAW Touch Screen	Type	SAW TS: Surface Wave
	Resolution	Corresponding to touch pressure Continuous, 4096 x 4096, plus 255 levels
	Light Transmission	92%
	Controller	RS-232 interface (use COM5)
	Durability	50 million touches
Optional Touch Screen	Type	Analog Resistive
	Resolution	Continuous
	Light Transmission	80%
	Controller	RS-232 interface (use COM 6)
	Durability	30 million touches
Optional Modules	Bluetooth	
	RFID	
Certifications	CE,FCC approved UL60601-1,EN60601-1 approved	
Environment	Temperature	0 ~ 40 C (32 ~ 104 F) (Operating) -20~60 C (Storage) -20~60 C (Transportation)
	Humidity	10 ~ 95%@40 (non-condensing) 5 ~ 95%@40 (non-condensing) (Storage) 5 ~ 95%@40 (Transportation)
	Shock Resistance	30G peak acceleration (11ms duration)
	Power MTBF	100,000hrs
	Water/dust Resis-tance	IPX1 compliant
	Pressure Range	700-1060 hPa (Operating) 375 mmHg to 795 mmHg (Storage) 375 mmHg to 795 mmHg (Transportation)
Physical Characteristics	Dimensions (W x H x D)	530 x 430 x 141 mm
	Weight	12 kg
Platform & Utilities	Windows 7, XPP	

1.3 Dimensions

Dimensions: 530 x 430 x 127 (Units: mm)

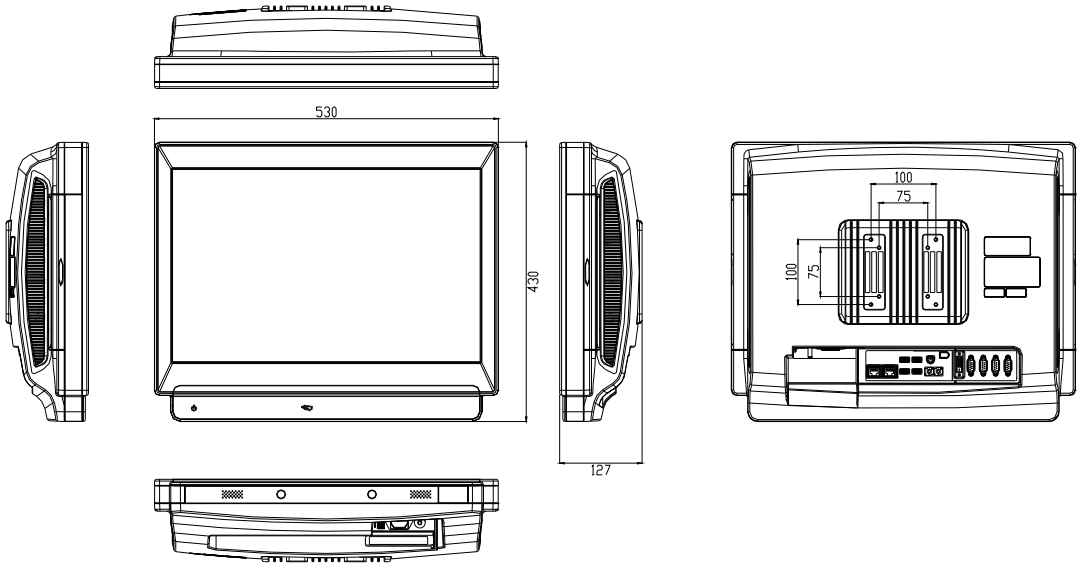


Figure 1.1 Dimensions of the POC-227G

1.4 VESA Mounting

VESA Mounting: 75 x 75 mm; 100 x 100 mm

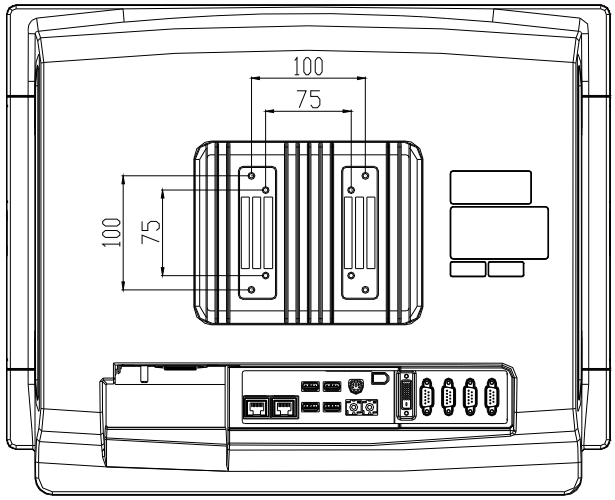


Figure 1.2 VESA mounting

Optional Modules

- **Memory:** 1 GB, 2 GB, 4 GB DDR3 1066 MHz SDRAM
- **HDD:** 2.5" SATA HDD
- **Touchscreen:** SAW or Analog resistive

Cleaning/Disinfecting

During normal use the POC-227G may become soiled and should, therefore, be cleaned regularly. Agents: Green tinctured soap and Enzymatic detergents

Steps:

1. Wipe the POC-227G with a clean cloth that has been moistened in the cleaning solution.
2. Prepare agent per manufacturer's instructions or hospital protocol.
3. Wipe thoroughly with a clean cloth

Caution! *Do not immerse or rinse the POC-227G and its peripherals. If you accidentally spill liquid on the device, disconnect the unit from the power source. Contact your Biomed unit regarding the continued safety of the unit before placing it back in operation.*

Do not spray cleaning agent on the chassis.

Do not use disinfectants that contain phenol. Do not autoclave or clean the POC-227G or its peripherals with strong aromatic, chlorinated, ketone, ether, or Esther solvents, sharp tools or abrasives. Never immerse electrical connectors in water or other liquids.

Note! *The Point of Care terminal with the optionally installed touchscreen will share COM6. Once the touchscreen is installed, COM6 cannot be used for other purposes.*

Chapter 2

System Setup

Sections include:

- A Quick Tour of the POC-227G
- Installation Procedures
- Running the BIOS Setup Program
- Installing System Software
- Installing the Drivers

2.1 A Quick Tour of the POC-227G

Before you start to set up the POC-227G, take a moment to become familiar with the locations and purposes of the controls, drives, connections and ports, which are illustrated in the figures below.

When you place the POC-227G upright on the desktop, its front panel appears as shown in Figure 2.1.

2.1.1 Front View

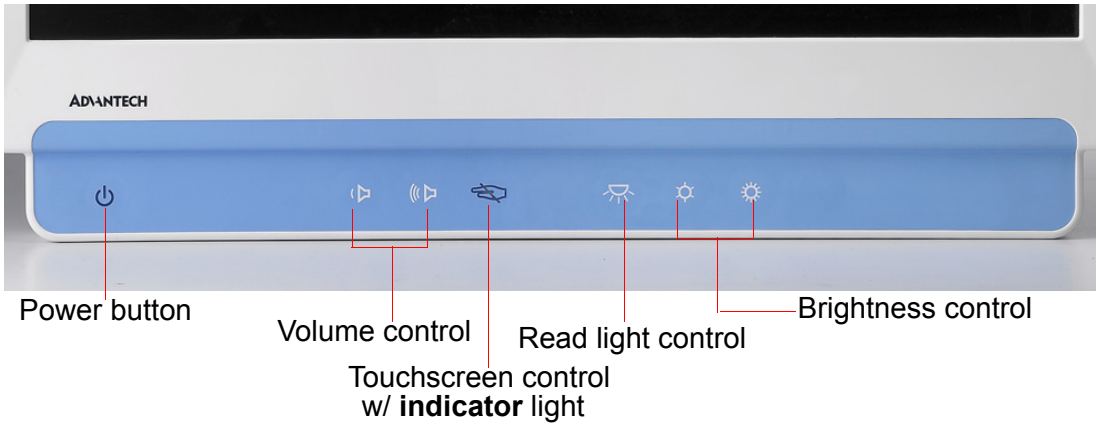


Figure 2.1 Front view of the point of care terminal

2.1.2 Rear View

When you turn the Point of Care terminal around and look at its rear cover, the sunken I/O section is at the bottom of the panel PC, as shown in Figure 2.2, and zoomed in Figure 2.3. (The I/O section includes various I/O ports, including serial ports, DVI port, the Ethernet port, USB ports, and so on.)

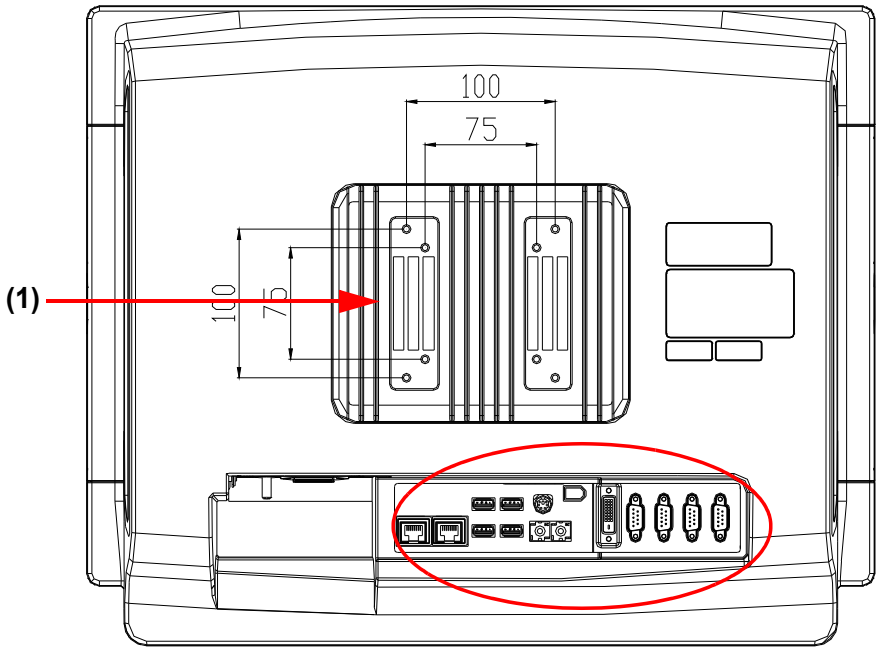


Figure 2.2 Rear view of the point of care terminal

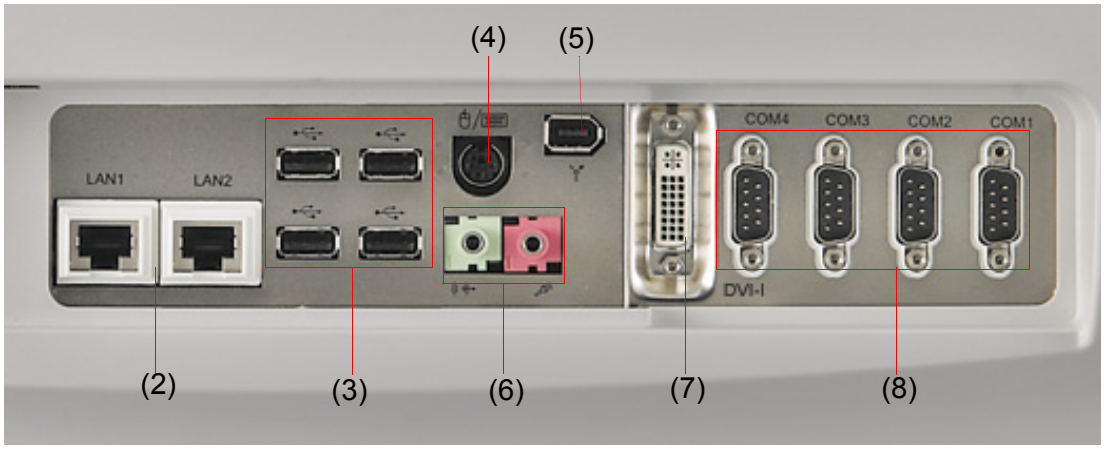


Figure 2.3 Rear view of multi I/O ports

2.1.2 Rear View

(1) Exchangeable air filter
(2) Ethernet (network) ports labeled TCP/IP (LAN1) and (LAN2)
(3) USB1-USB4 ports*
(4) KB/MOUSE (keyboard/mouse) PS/2 port
(5) IEEE 1394a port
(6) Microphone-in & Line out jack
(7) DVI-I port
(8) COM1 - COM4 serial ports

Note! *Please clean the air filter monthly for system good cooling.*

2.1.3 Bottom View

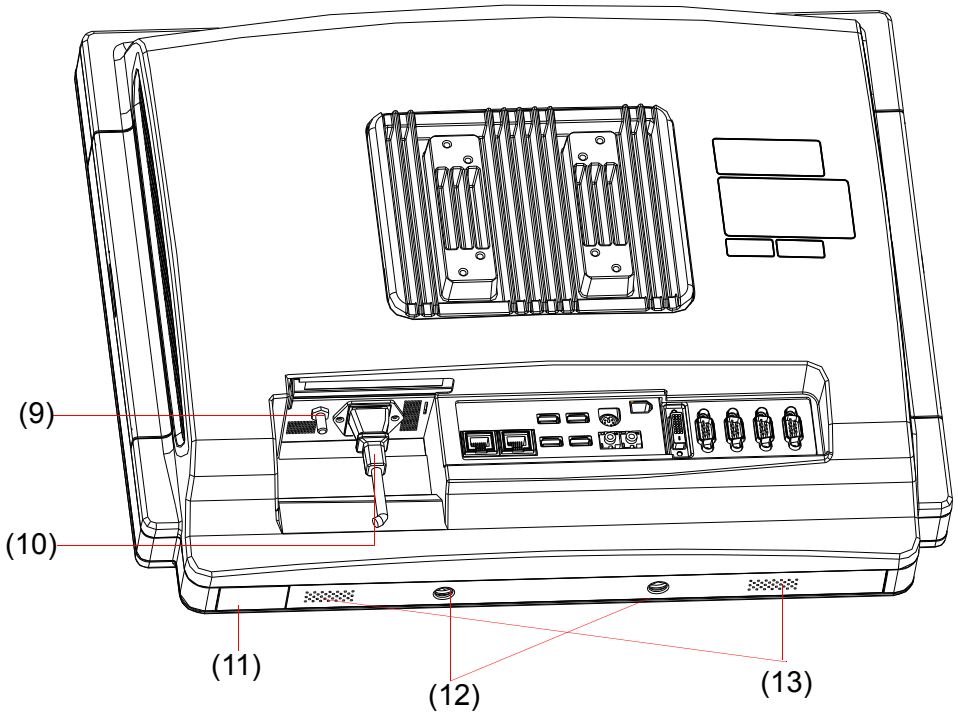


Figure 2.4 Bottom view

2.1.3 Bottom View

(9) Equipotential terminal
(10) AC inlet
(11) USB5 port
(12) Read lights
(13) Speakers

Note! *Equipotential terminals need to be properly grounded to the hospital ground/earth system before system boot to protect operator and system.*

2.1.4 Right-side Door View

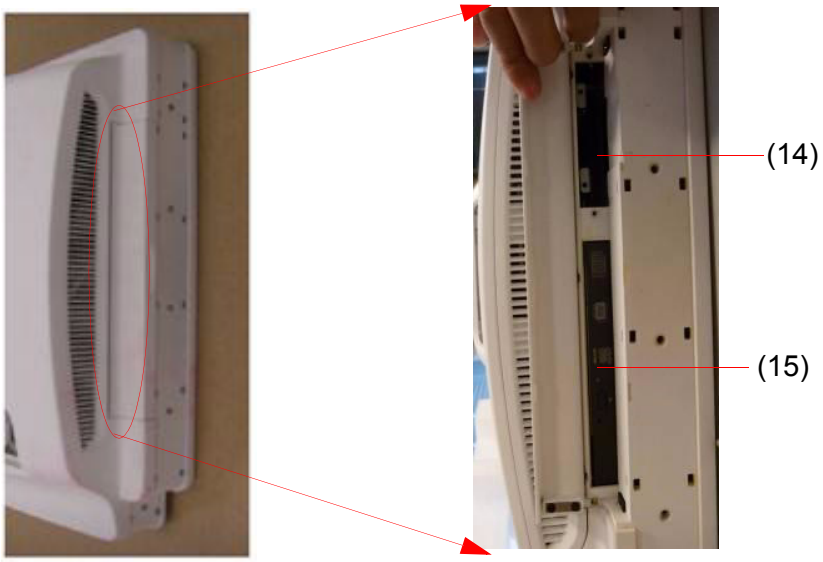


Figure 2.5 Right-side door view

2.1.4 Right-side Door View

(14) HDD 2.5"

(15) DVD-RW or Blue-ray (optional)

2.1.5 Left-side Door View

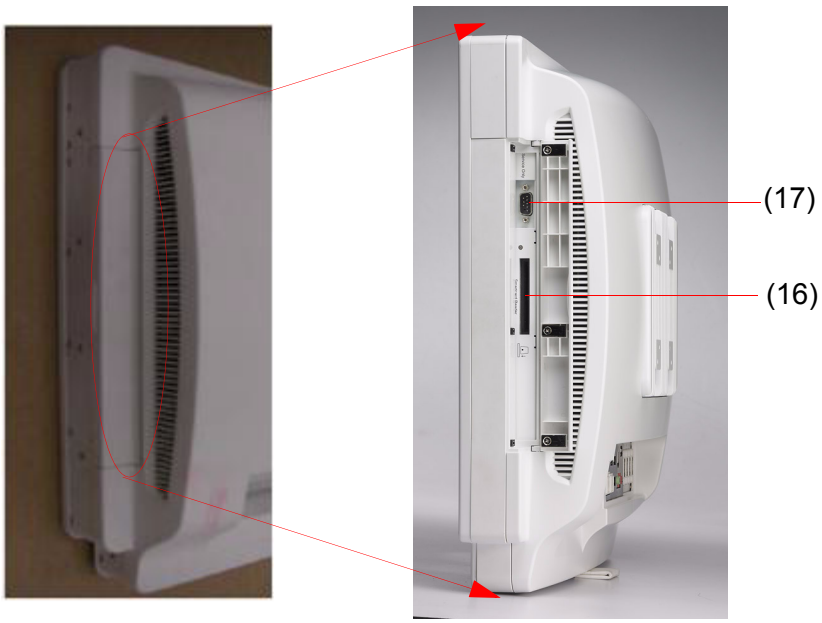


Figure 2.6 Left-side door view

2.1.5 Left-side Door View

(16) Smart Card Reader

(17) Service port (for trained FAE use only)

2.2 Installation Procedures

2.2.1 Connecting the Power Cord

The POC-227G can only be powered by an AC power cord. Always handle the power cords by holding the plug ends only.

Follow these procedures in order:

1. Prepare the POC-227G.
2. Connect the female end of the power cord to the AC Power inlet of the POC-227G.
3. Connect the 3-pin male plug of the power cord to an electrical outlet. (See Figure 2.7)

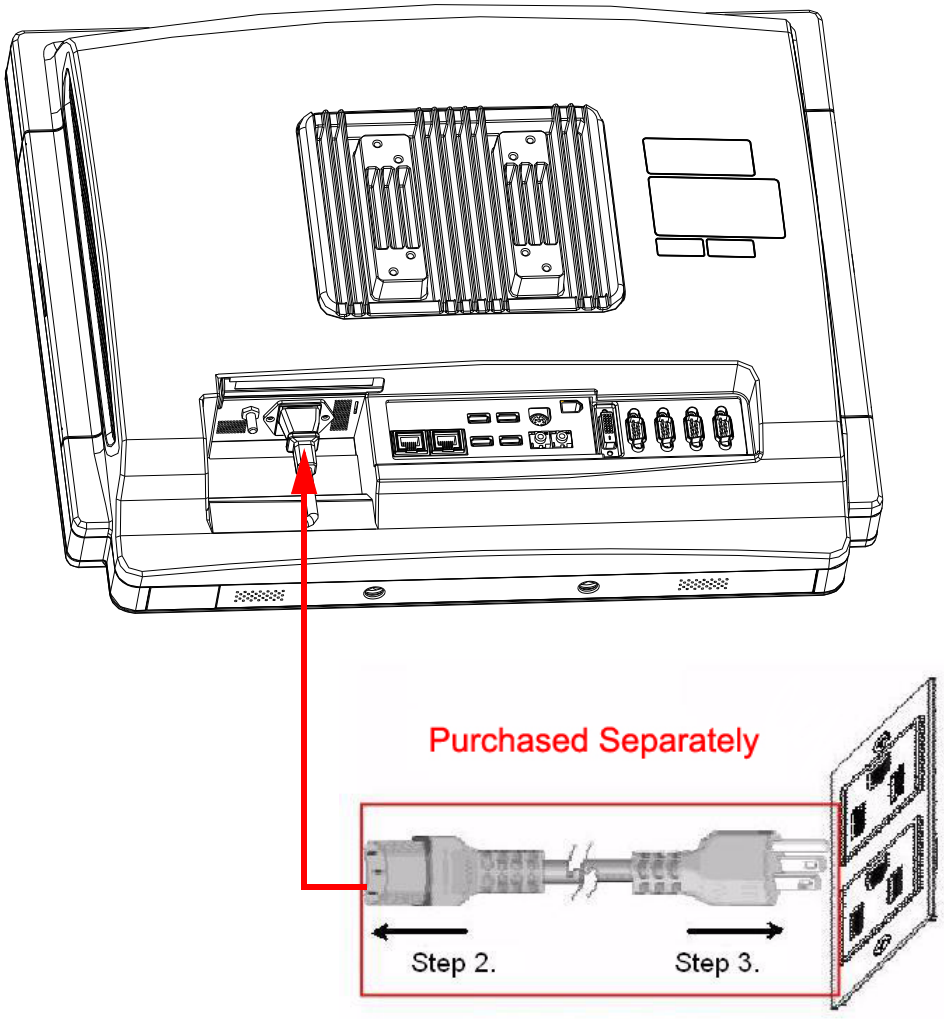


Figure 2.7 Connecting the power cord

2.2.2 Connecting the Ground Pin

1. Ready the system and find the equipotential terminal on the rear-side of the POC terminal.
   An equipotential terminal is provided to optionally connect to a hospital ground/ earth system

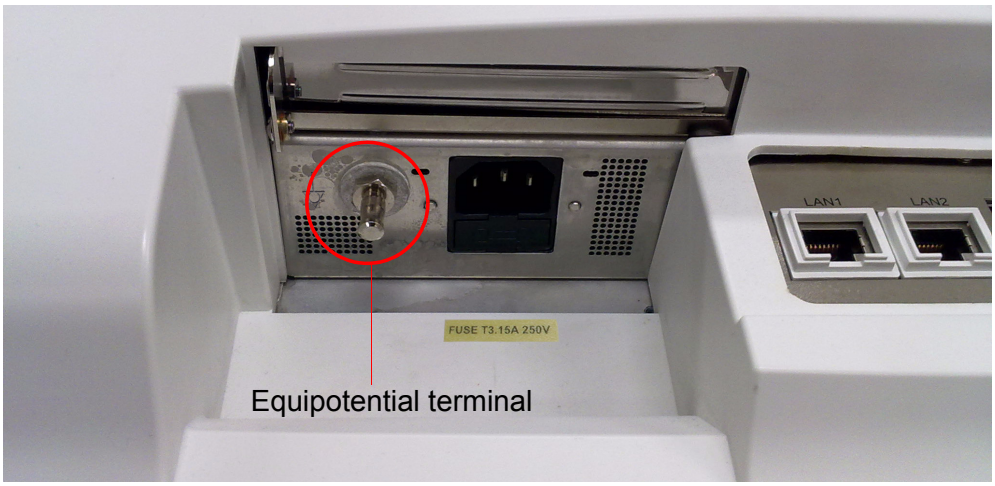


Figure 2.8 POC-227G Equipotential terminal pin

2. Prepare the grounding cable and the other terminal link to hospital ground/earth system.

Figure 2.9 Grounding cable with connector

3. Attach the grounding cable plug with the POC-227G equipotential terminal (See Figure 2.7)

Figure 2.10 POC-227G Equipotential terminal connected with grounding cable

2.2.3 Switch on the Power

Switch on the reset switch on the front cover. (See Figure 2.11.)

Figure 2.11 Press the power button to boot system

2.3 Running the BIOS Setup Program

Your POC-227G is likely to have been properly set up and configured by your dealer prior to delivery. You may still find it necessary to use the BIOS (Basic Input-Output System) setup program to change system configuration information, such as the current date and time or your type of hard drive. The setup program is stored in read-only memory. It can be accessed either when you turn on or reset the panel PC, by pressing the "Crtl+Alt+Del" keys on your keyboard immediately after powering on the computer.

The settings you specify with the setup program are recorded in a special area of memory called CMOS RAM. This memory is backed up by a battery so that it will not be erased when you turn off or reset the system. Whenever you turn on the power, the system reads the settings stored in CMOS RAM and compares them to the equipment check conducted during the power on self-test (POST). If an error occurs, an error message will be displayed on screen, and you will be prompted to run the setup program.

2.4 Installing System Software

Recent releases of operating systems from major vendors include setup programs which load automatically and guide you through hard disk preparation and operating system installation. The guidelines below will help you determine the steps necessary to install your operating system on the panel PC hard drive.

Note! *Some distributors and system integrators may have already pre-installed system software prior to shipment of your panel PC.*

If required, insert your operating system's installation or setup diskette into the external diskette drive until the release button pops out.

The BIOS supports system boot-up directly from the CD-ROM drive. You may also insert your system installation CD-ROM disk into your external CD-ROM drive.

Power on or reset the system by pressing the "Ctrl+Alt+Del" keys simultaneously. The Point of Care terminal will automatically load the operating system from the diskette or CD-ROM.

If you are presented with the opening screen of a setup or installation program, follow the instructions on screen. The setup program will guide you through preparation of your hard drive, and installation of the operating system.

2.5 Installing the Drivers

After installing your system software, you will be able to set up the chipset, graphics, Ethernet, audio and touchscreen functions using your own external CD-ROM drive. All the drivers except the CD-ROM drive driver are stored on a CD-ROM disc entitled "Drivers and Utilities".

The standard procedures for installing the drivers are described in Chapters 3~11 respectively.

The various drivers and utilities on the CD-ROM disc have their own text files which help users install the drivers and understand their functions. These files are a very useful supplement to the information in this manual.

For your reference, the directory of drivers on the "Drivers and Utilities" CD-ROM is "D:\driver" folder

Note! *The drivers and utilities used for the POC-227G panel PCs are subject to change without notice. If in doubt, check Advantech's website or contact our application engineers for the latest information regarding drivers and utilities.*

Chapter 3

Chipset

Sections include:

- **Introduction**
- **Installation of Chipset Driver**

3.1 Introduction

The POC-227G has the Mobile Intel 4 Series Express Chipset Family, which is designed for use in Intel's next generation mobile platform.

The POC-227G use the Mobile Intel® GS45 Express chipsets provide outstanding flexibility for developers of embedded applications with excellent graphics, memory and I/O bandwidth, as well as remote asset management capabilities, storage speed and reliability. They address requirements of a broad range of embedded applications such as retail and transaction solutions, gaming platforms and industrial automation equipment. The Mobile Intel GS45 Express chipsets provide the same feature set and functionality in different form factors.

In this document, the Mobile Intel 4 Series Express Chipset Family is referred to as the GMCH. And Intel 82801IEM ICH9 Mobile Enhanced (ICH9M-E) is referred to as the ICH

Processor Information:

- Intel Core 2 Duo mobile processors based on the 45-nm process
- Intel Celeron mobile processors based on the 65-nm process
- 667-MHz, 800-MHz and 1066-MHz FSB
- Other key features are:
  - Support for Intel Trusted Execution Technology (Intel TXT) commands and signaling
  - Support for Data Bus Inversion (DBI)
  - Support for Intel Virtualization Technology (Intel VT) f or Directed I/O (Intel VT-d) (DMA)
  - Support for Message Signaled Interrupt (MSI)
  - 36-bit interface to addressing, allowing the CPU to access the entire 64 GB of the GMCH's memory address space
  - 12-deep, in-order queue to pipeline FSB commands

Memory Information:

- Supports DDR3 SDRAMs
- Support for DDR3 at 800 MHz and 1066 MHz (667 MHz when FSB at 667 MHz)
- Two memory channel configurations supported:
  - Dual-channel symmetric (with Interleaved access)
  - Dual-channel asymmetric (with or without Intel Flex Memory technology)
- 8 GB maximum memory support
- 64-bit wide per channel
- 256 Mbit, 512 Mbit, 1 Gbit, and 2 Gbit memory technologies supported
- Support for x8 and x16 DDR3 devices
- Support for DDR3 On-Die Termination (ODT)
- No support for Fast Chip Select mode
- No support for ECC
- No support for 1N operation

* Due to standard PC architecture, a certain amount of memory is reserved for system usage and therefore the actual memory size is less than the stated amount.

Intel Trusted Execution Technology (Intel TXT):

- Memory protection from bus masters via No-DMA support (in a secure environment)

Intel Virtualization Technology (Intel VT) DMA:

- DMA remapping support via a GMCH remapping engine
- Chipset support for hardware address translation GPA (Guest Physical Address) to HPA (Host Physical Address)
- Accelerated DMA translation performance via GMCH cache support
- Protected Low-memory Region (<4 GB) and High-memory Region (>4 GB) to securely store VMM data

Integrated Trusted Platform Module (ITPM):

The GMCH supports an ITPM 1.2 unit within the Intel ME subsystem of the platform.

The GMCH executes validated TPM firmware out of a portion of hardware isolated DDR DRAM.

These chipsets consist of the Intel® GS45 Graphics Memory Controller Hub (GMCH), and the Intel® I/O Controller Hub 9M (ICH9M), available in three SKUs. The ICH9M delivers outstanding system performance through high-bandwidth interfaces including PCI Express*, Serial ATA, and USB 2.0.

The ICH9 provides extensive I/O support. Functions and capabilities include:

- PCI Express* Base Specification, Revision 1.1 support
- PCI Local Bus Specification, Revision 2.3 support for 33 MHz PCI operations (supports up to four Req/Gnt pairs).
- ACPI Power Management Logic Support, Revision 3.0b
- Enhanced DMA controller, interrupt controller, and timer functions
- Integrated Serial ATA host controllers with independent DMA operation on up to four ports (Mobile only) and AHCI support.
- USB host interface with support for up to twelve USB ports; six UHCI host controllers; two EHCI high-speed USB 2.0 Host controllers
- Integrated 10/100/1000 Gigabit Ethernet MAC with System Defense
- System Management Bus (SMBus) Specification, Version 2.0 with additional support for I2C devices
- Supports Intel High Definition Audio
- Supports Intel Active Management Technology
- Supports Intel Virtualization Technology for Directed I/O
- Supports Intel Trusted Execution Technology
- Low Pin Count (LPC) interface
- Firmware Hub (FWH) interface support
- Serial Peripheral Interface (SPI) support
- Integrated TPM 1.2 (Mobile Only)

3.2 Installation of Chipset Driver

Complete the following steps to install the Chipset driver. Follow the procedures in the flow chart that apply to the operating system that you are using within your POC-227G.

Important! *The following Windows illustrations are examples only. You must follow the flow chart instructions and pay attention to the instructions which appear on your screen.*

Note! *The CD-ROM drive is designated as "D" throughout this chapter.*

Note! *<Enter> means pressing the "Enter" key on the keyboard.*

Note! *Before you install the graphics driver of the POC-227G, please ensure you have installed the "Intel Chipset Software Installation Utility". You can find this driver on the Utility CD-ROM.*

Note! *The resolution of window display will be fixed at 640 x 480 before you install the graphics driver. Depending on your monitor's native resolution, the black area might be different.*

3.2.1 Installation for Windows XP

1. Double Click "setup.exe" in D:\Driver\XP\Chipset folder. The Install dialog will appear.
2. Click 'Next' to continue.

Intel® Chipset Device Software
Intel® Chipset Device Software
Welcome to the Setup Program
This setup program will install the Intel® Chipset Device Software onto this computer. It is strongly recommended that you exit all programs before continuing.
< Back
Next >
Cancel
Intel® Installation Framework

3. Read the License Agreement and click “Yes” to proceed.

Intel® Chipset Device Software
Intel® Chipset Device Software
License Agreement
You must accept all of the terms of the license agreement in order to continue the setup program. Do you accept the terms?
INTEL SOFTWARE LICENSE AGREEMENT (OEM / IHV / ISV Distribution & Single User)
IMPORTANT - READ BEFORE COPYING, INSTALLING OR USING.
Do not use or load this software and any associated materials (collectively, the "Software") until you have carefully read the following terms and conditions. By loading or using the Software, you agree to the terms of this Agreement. If you do not wish to so agree, do not install or use the Software.
Please Also Note:
* If you are an Original Equipment Manufacturer (OEM), Independent Hardware Vendor (IHV), or Independent Software Vendor (ISV), this complete LICENSE AGREEMENT applies;
< Back
Yes
No
Intel® Installation Framework

4. Read the file information screen and click “Next” to proceed.

Intel® Chipset Device Software
Intel® Chipset Device Software
Readme File Information
Refer to the Readme file below to view the system requirements and installation information.
Press the Page Down key to view the rest of the file.
****
* Product: Intel(R) Chipset Device Software
* Release: Production Version
* Version: 9.0.0.1008
* Target Chipset#: Intel(R) 4 Series Chipset
* Date: May 01 2008
****
< Back
Next >
Cancel
Intel® Installation Framework

5. When the 'Setup COMPLETE' message appears click 'Finish' to restart your computer.

Intel® Chipset Device Software
Intel® Chipset Device Software
Setup Is Complete
The setup program successfully installed the Intel® Chipset Device Software onto this computer.
Click Finish to complete the setup process.
Finish
Intel® Installation Framework

3.3 Further Information

For further information about the installation on your POC-227G, included driver updates, troubleshooting guides and FAQ lists, please visit the following web resources.

Intel website: www.intel.com

Advantech websites: http://www.advantech.com
http://www.advantech.com.tw

Chapter 4

Graphics

Sections include:

- Introduction
- Installation of Graphics Driver

4.1 Introduction

The POC-227G has an onboard display or option discrete graphics interface. The specifications and features are described as follows:

4.1.1 Intel GS45 Internal Graphics

The POC-227G use the Mobile Intel® GS45 Express chipsets provide outstanding flexibility for developers of embedded applications with excellent graphics, memory and I/O bandwidth, as well as remote asset management capabilities, storage speed and reliability. They address requirements of a broad range of embedded applications such as retail and transaction solutions, gaming platforms and industrial automation equipment. The Mobile Intel GS45 Express chipsets provide the same feature set and functionality in different form factors.

Internal Graphics:

- Intel Gen 5.0 integrated graphics engine with 10 fully programmable cores
- 533-MHz core render clock
- Supports DVI (Single Channel), LVDS (Dual Channel 24 bpp), CRT (Via DVI-I Jack)
- Intel Dynamic Video Memory Technology (Intel DVMT 5.0) to dynamically allocate system memory for graphics usage.
- High performance MPEG-2 decoding
- WMV9 (VC-1) and H.264 (AVC) support
- Hardware acceleration for MPEG2 VLD/iDCT
- Microsoft DirectX*10 support
- Blu-ray* support @ 40 Mb/s
- Hardware motion compensation
- Intermediate Z in classic rendering

4.1.2 Display Types

POC-227G supports Single DVI-I jack for single monitor.

The DVI-I Jack support both DVI Digital I/F and CRT RGB signal.

Analog CRT DAC interface supports max DAC frequency up to 300 MHz, 24-bit RAMDAC, DDC2B compliant, and resolution up to QXGA 2048 x 1536.

DVI interface support single channel DVI interface, and resolution up to WUXGA 1920x1200.

POC-227G supports Dual channel LVDS interface to internal wide 22" TFT Panel.

4.2 Installation of Graphics Driver

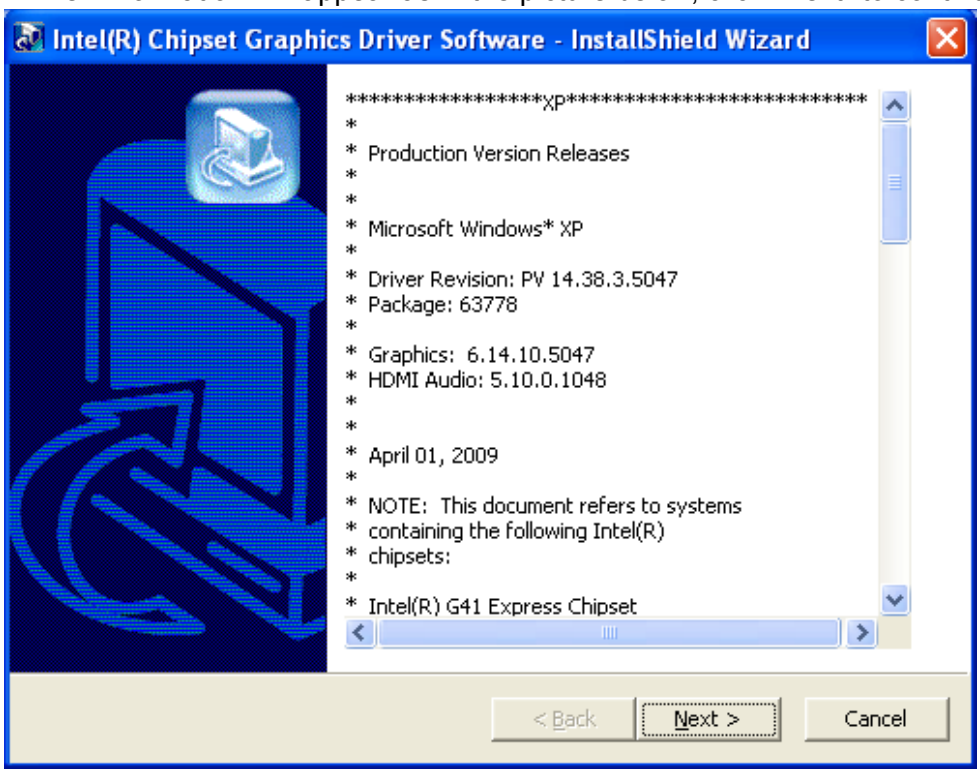
There are two kinds of graphics driver, Intel internal graphics and ATI discrete graphics driver. Please install proper driver base on your hardware configuration.

Caution! *Please don't install both Intel internal graphic driver and ATI discrete graphics driver at same system. Only install one graphics driver.*

4.2.1 Intel Internal Graphics Driver Install

1. Double Click "winxp_14383.exe" in D:\Driver\XP\Intel Graphics folder. The Install dialog will appear.

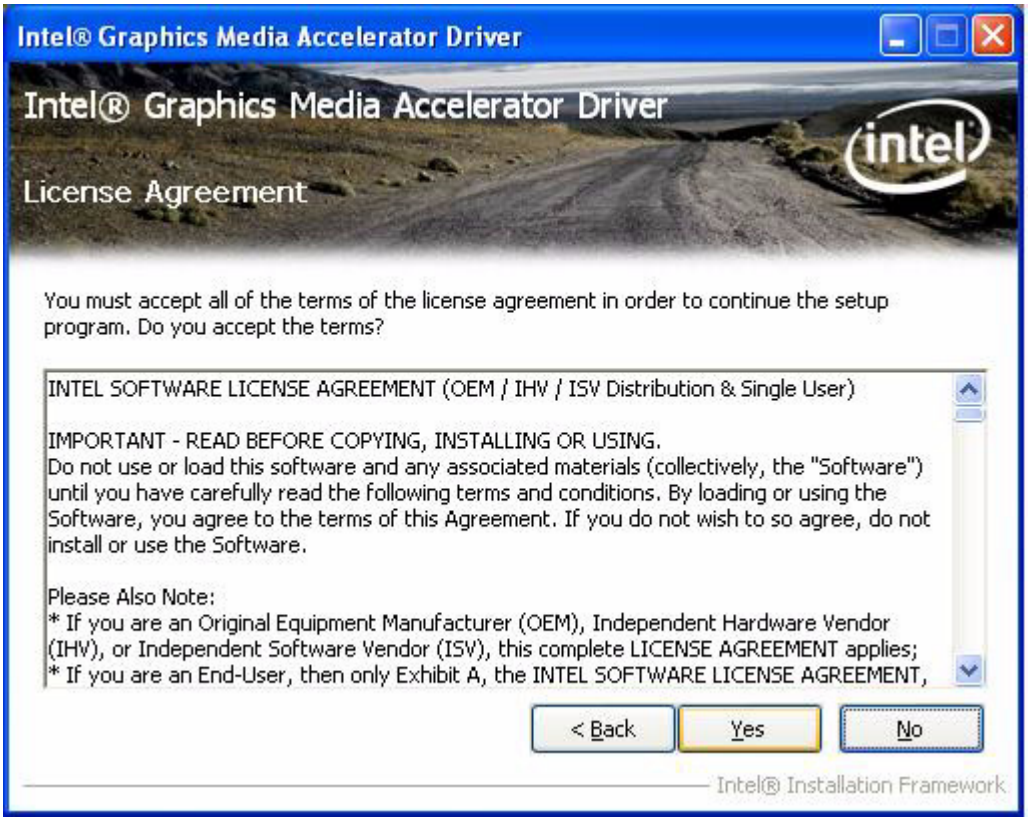
2. Driver Information will appear as in the picture below, click "Next" to continue.


Intel(R) Chipset Graphics Driver Software - InstallShield Wizard
**********XP**********
* Production Version Releases
* Microsoft Windows* XP
* Driver Revision: PV 14.38.3.5047
* Package: 63778
* Graphics: 6.14.10.5047
* HDMI Audio: 5.10.0.1048
* April 01, 2009
* NOTE: This document refers to systems containing the following Intel(R) chipsets:
* Intel(R) G41 Express Chipset
< Back
Next >
Cancel

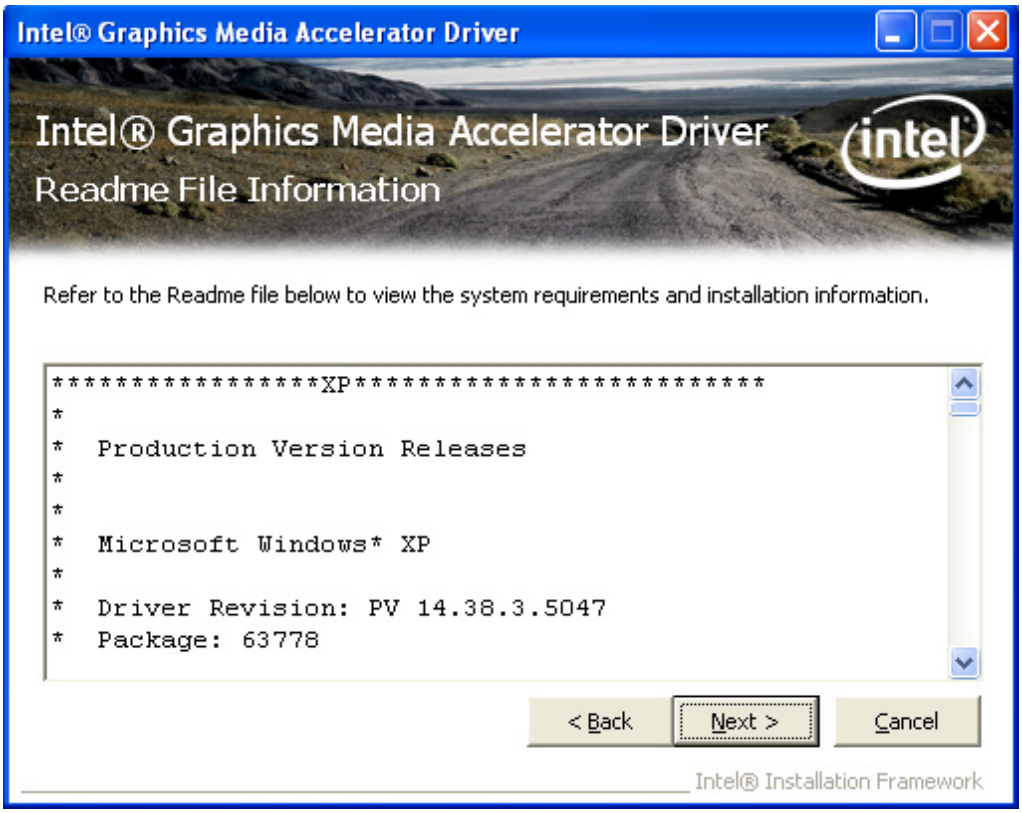
3. Click 'Next' to continue.

Intel® Graphics Media Accelerator Driver
Intel® Graphics Media Accelerator Driver
Welcome to the Setup Program
This setup program will install the Intel® Graphics Media Accelerator Driver onto this computer. It is strongly recommended that you exit all programs before continuing. Click Next to continue.
< Back
Next >
Cancel
Intel® Installation Framework

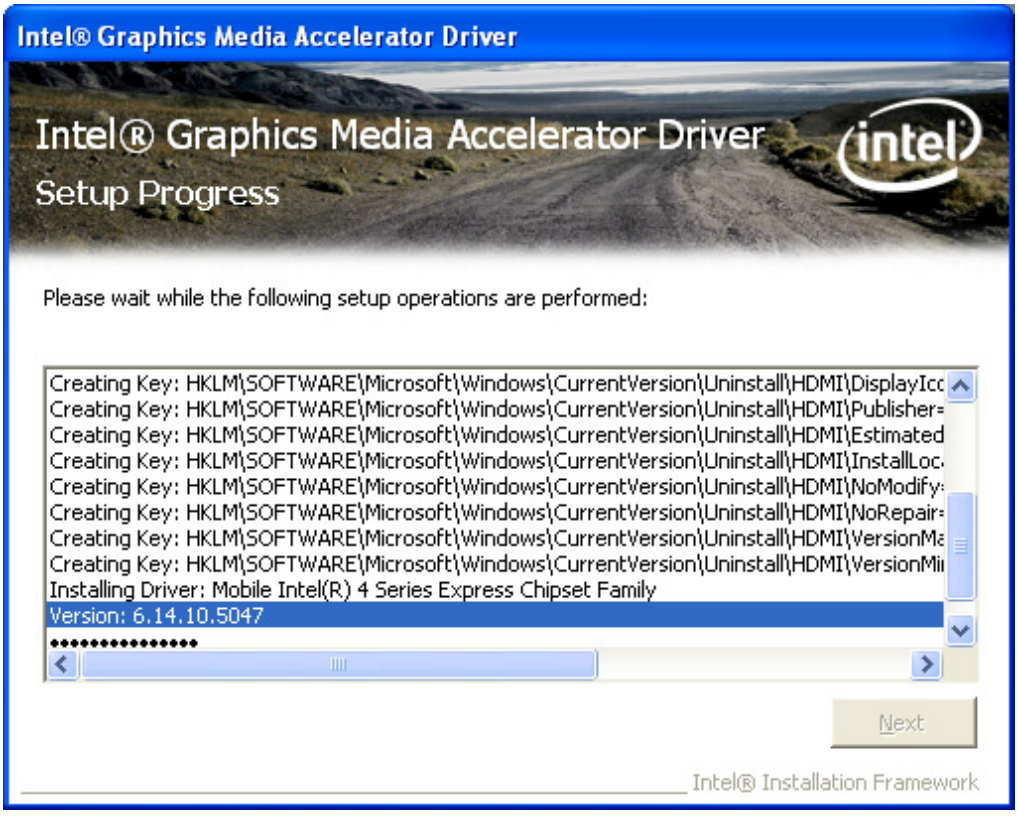
4. Read the License Agreement and click “Yes” to proceed.


Intel® Graphics Media Accelerator Driver
Intel® Graphics Media Accelerator Driver
License Agreement
You must accept all of the terms of the license agreement in order to continue the setup program. Do you accept the terms?
INTEL SOFTWARE LICENSE AGREEMENT (OEM / IHV / ISV Distribution & Single User)
IMPORTANT - READ BEFORE COPYING, INSTALLING OR USING.
Do not use or load this software and any associated materials (collectively, the "Software") until you have carefully read the following terms and conditions. By loading or using the Software, you agree to the terms of this Agreement. If you do not wish to so agree, do not install or use the Software.
Please Also Note:
* If you are an Original Equipment Manufacturer (OEM), Independent Hardware Vendor (IHV), or Independent Software Vendor (ISV), this complete LICENSE AGREEMENT applies;
* If you are an End-User, then only Exhibit A, the INTEL SOFTWARE LICENSE AGREEMENT,
< Back
Yes
No
Intel® Installation Framework

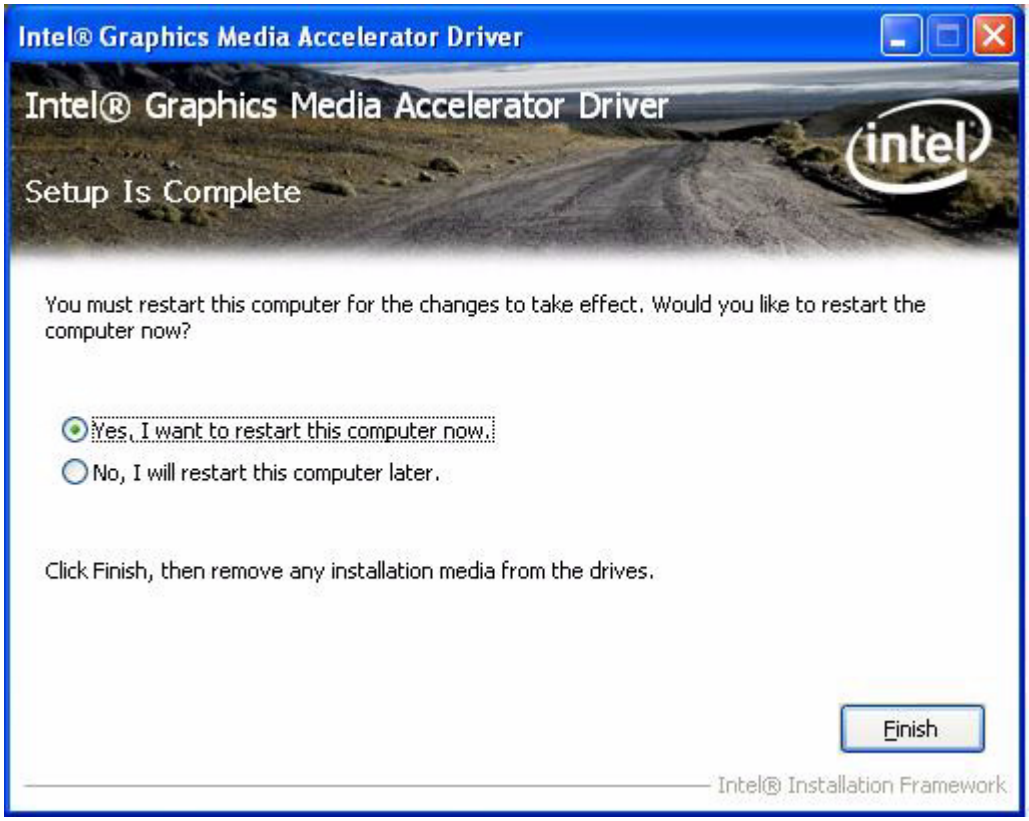
5. Read the file information screen and click “Next” to proceed.


Intel® Graphics Media Accelerator Driver
Intel® Graphics Media Accelerator Driver
Readme File Information
Refer to the Readme file below to view the system requirements and installation information.
**********XP**********
* Production Version Releases
* Microsoft Windows* XP
* Driver Revision: PV 14.38.3.5047
* Package: 63778
< Back
Next >
Cancel
Intel® Installation Framework

6. When the 'Click Next to continue' message appears click 'Next' to proceed.

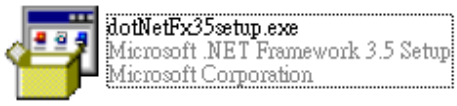


7. When the 'Setup Is Complete' message appears click 'Finish' to restart your computer.


Intel® Graphics Media Accelerator Driver
Intel® Graphics Media Accelerator Driver
Setup Is Complete
intel
You must restart this computer for the changes to take effect. Would you like to restart the computer now?
Yes, I want to restart this computer now.
No, I will restart this computer later.
Click Finish, then remove any installation media from the drives.
Finish
Intel® Installation Framework

Because this Intel graphics driver requires "Microsoft .Net Framework 3.5" to work properly, please install "Microsoft .Net Framework 3.5" after reboot.

1. Double Click "dotNetFx35setup.exe" in D:\Driver\XP\ DotNet35 folder. The Install dialog will appear.



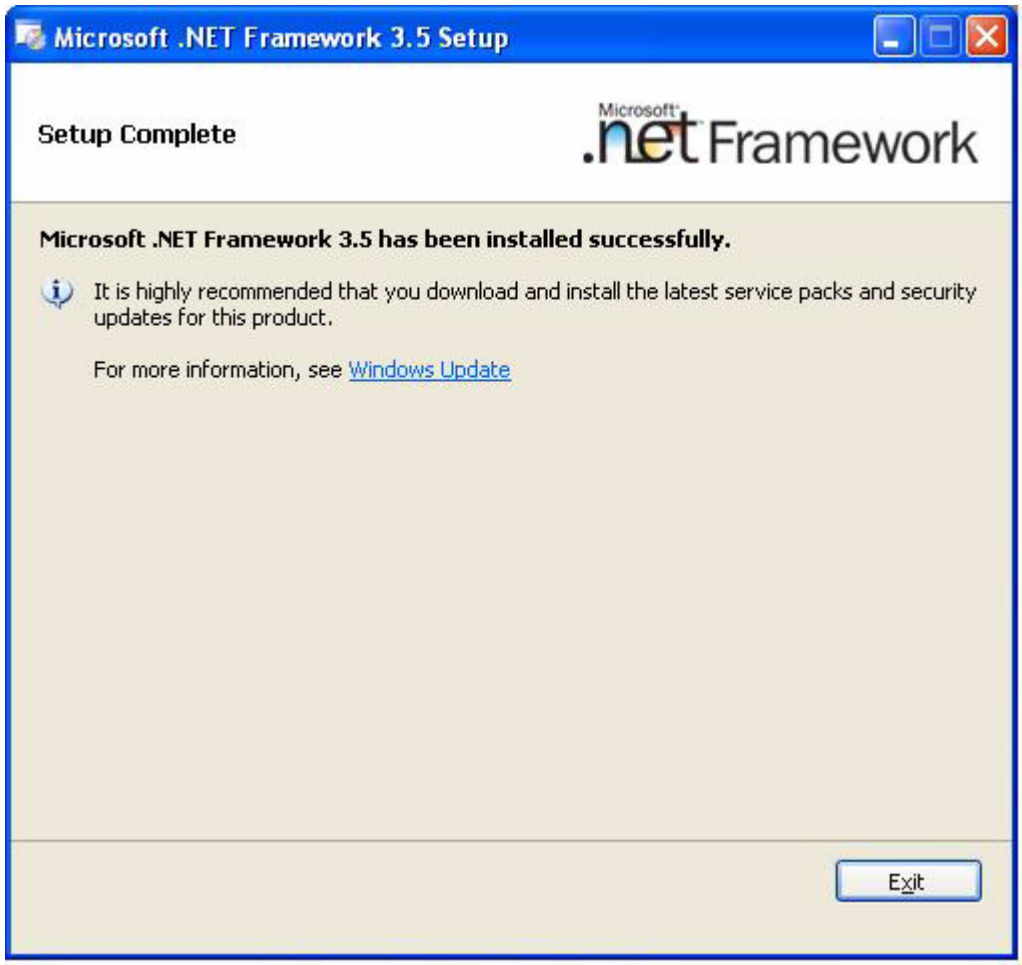
2. Read the license agreement and select "I have read and ACCEPT the terms of the License Agreement"; click 'Install' to proceed.

Microsoft .NET Framework 3.5 Setup
Welcome to Setup
Microsoft .net Framework
Be sure to carefully read and understand all the rights and restrictions described in the license terms. You must accept the license terms before you can install the software.
MICROSOFT SOFTWARE SUPPLEMENTAL LICENSE TERMS
Press the Page Down key to see more text.
Print
I have read and ACCEPT the terms of the License Agreement
I DO NOT ACCEPT the terms of the License Agreement
Send information about my setup experiences to Microsoft Corporation.
Details regarding the data collection policy
Download File Size: 60 MB
Download Time Estimate: 2 hr 27 min (56 kbps)
16 min (512 kbps)
Install >
Cancel

3. Download and install progress messages appear, please wait several minutes for the installation to complete.

Note! *There is no need to connect to the internet; this install program contains all files necessary.*

4. When the 'Setup complete' message appears, click 'Exit' to exit the install process. Please restart the system.


Microsoft .NET Framework 3.5 Setup
Setup Complete
Microsoft .net Framework
Microsoft .NET Framework 3.5 has been installed successfully.
It is highly recommended that you download and install the latest service packs and security updates for this product.
For more information, see Windows Update
Exit

Chapter 5

Audio Interface

Sections include:

- Introduction
- Installation of Audio Driver
- Further Information

5.1 Introduction

The POC-227G's onboard audio interface provides high-quality stereo sound by using the ALC888/ALC886 audio controller from Realtek. The ALC888/ALC886 series are high performance 7.1+2 channel High Definition Audio Codecs providing ten DAC channels that simultaneously support 7.1 sound playback, plus 2 channels of independent stereo sound output (multiple streaming) through the front panel stereo outputs.

Key Features:

- All DACs supports 44.1K/48K/96K/192KHz sample rate
- All ADCs support 44.1K/48K/96K sample rate
- Software selectable boost gain for analog microphone input
- All analog jacks are stereo
- Build in headphone amplifiers for headphone jack
- Supports anti-pop mode when analog power AVDD is on and digital power is off.

POC-227G contains one headphone output (Green color) jack and one microphone (Pink color) input jack.

There are two internal speakers to provide stereo audio.

5.2 Installation of Audio Driver

Before installing the audio driver, please take note of the procedures detailed below. You must know which operating system you are using on your POC-227G, and refer to the corresponding installation flow chart. Just follow the steps in the flow chart. You can quickly and successfully complete the installation, even if you are not familiar with instructions for Windows.

This setup program will install the audio driver and Realtek utility onto your system.

Important! *The following Windows illustrations are examples only. You must follow the flow chart instructions and pay attention to the instructions which appear on your screen.*

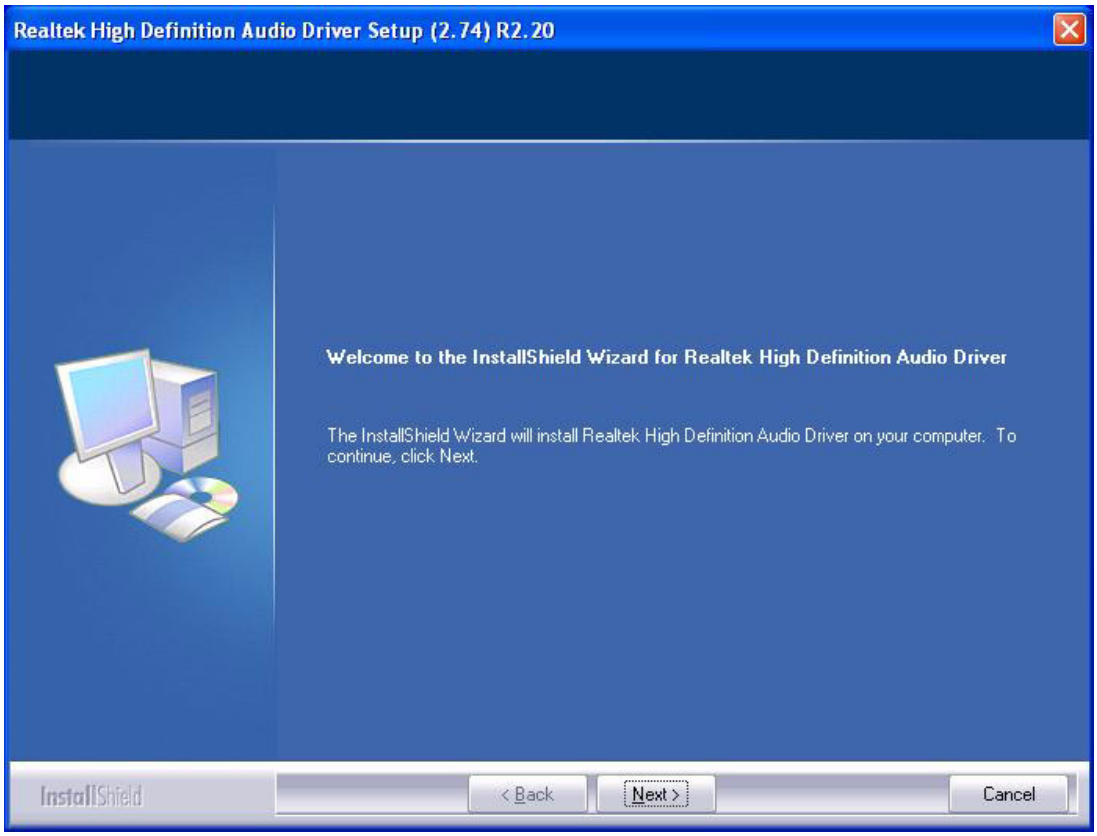
Note! *The CD-ROM drive is designated as "D" throughout this chapter.*

Note! *<Enter> means pressing the "Enter" key on the keyboard.*

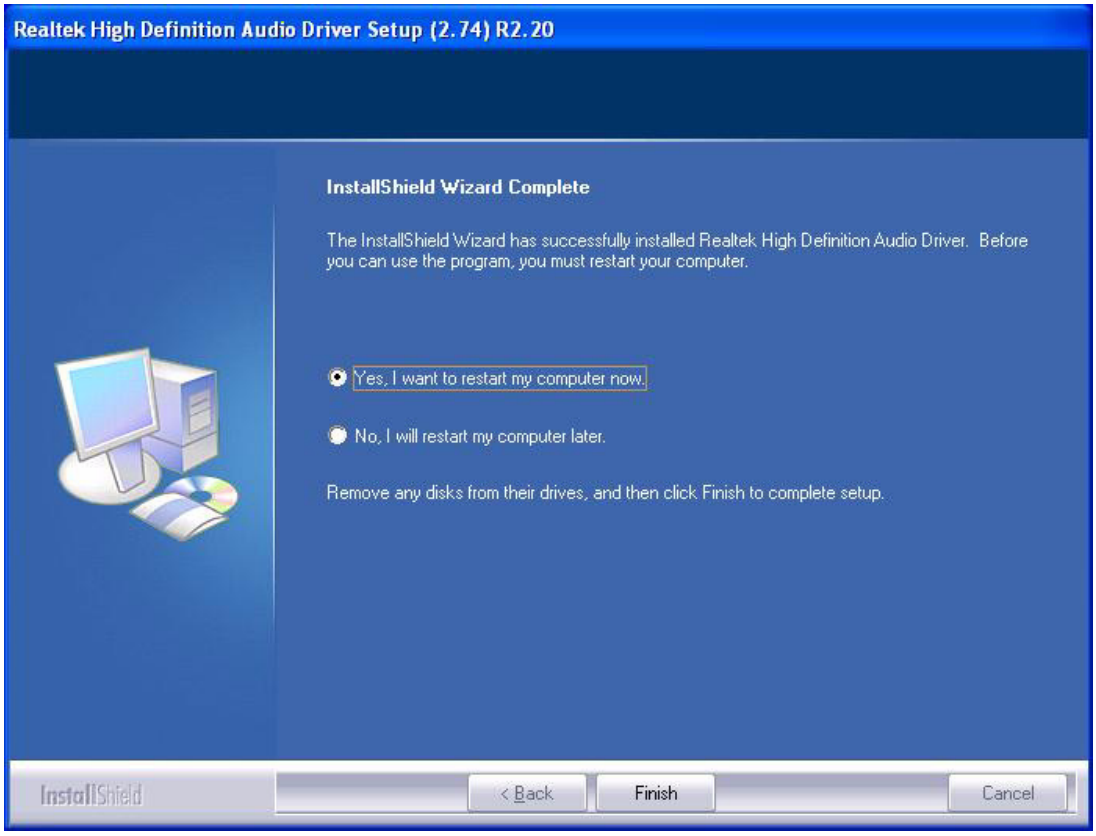
5.2.1 Installation for Windows 2000/XP

1. Double Click "Setup.exe" in D:\Driver\XP\Audio folder. The Install dialog will appear.

2. Click “Next” to continue.
The install program will install the driver and utility. It will spend a period of time processing.


Realtek High Definition Audio Driver Setup (2.74) R2.20
Welcome to the InstallShield Wizard for Realtek High Definition Audio Driver
The InstallShield Wizard will install Realtek High Definition Audio Driver on your computer. To continue, click Next.
InstallShield
< Back
Next >
Cancel

3. When the 'InstallShield Wizard Complete' message appears click 'Finish' to restart your computer.


Realtek High Definition Audio Driver Setup (2.74) R2.20
InstallShield Wizard Complete
The InstallShield Wizard has successfully installed Realtek High Definition Audio Driver. Before you can use the program, you must restart your computer.
Yes, I want to restart my computer now.
No, I will restart my computer later.
Remove any disks from their drives, and then click Finish to complete setup.
InstallShield
< Back
Finish
Cancel

5.3 Further Information

For further information about the audio interface installation on your POC-227G, including driver updates, troubleshooting guides and FAQ lists, please visit the following web resources:

Realtek website: http://www.realtek.com.tw

Advantech websites:http://www.advantech.com

http://www.advantech.com.tw

Chapter 6

PCI Express Ethernet

Sections include:

- **Introduction**
- **Installation of Ethernet Driver**
- **Further Information**

6.1 Introduction

The POC-227G is equipped with a high performance PCIe Ethernet chipset Intel 82567LM and Intel 82574L which is fully compliant with IEEE 802.3 10/100/1000 Mbps standards. The Ethernet port provides a standard RJ-45 jack.

Product Features (82567LM)

- Reduced power consumption during normal operation and power down modes IEEE 802.3 Ethernet interface for 1000BASE-T,100BASE-TX, and 10BASE-T applications (802.3, 802.3u, and 802.3ab) conformance
- Supports up to 9 Kb jumbo frames (full duplex)
- Supports carrier extension (half duplex)
- Auto-negotiation with support for next page
- Smart speed operation, for automatic speed reduction on faulty cable plants
- Automatic MDI crossover capable
- PMA loopback capable (No echo cancel)
- Advanced power management:
  - Low power link up
  - Auto Connect Battery Saver - link disconnect
- Advanced cable diagnostics:
  - TDR
  - Channel frequency response
- Extended configuration load sequence
- Automatic resolution of FDX/HDX mismatch in 10/100 forced configurations
- Dual interconnect between MAC and PHY:
  - LCI for 10/100 Mb/s operation control traffic
  - GLCI for 1000 Mb/s operation
- Supported ICH Integrated MAC Features:
  - Manageability: vPro Compatible
  - Performance:
    - RSS Support
    - Checksum offload

Product Features (82574L)

- PCI Express* (PCIe*)
  - 64-bit address master support for systems using more than 4 GB of physical memory
  - Programmable host memory receive buffers (256 bytes to 16 KB)
  - Intelligent interrupt generation features to enhance driver performance
  - Descriptor ring management hardware for transmit and receive software controlled reset (resets everything except the configuration space)
  - Message Signaled Interrupts (MSI and MSI-X)
  - Configurable receive and transmit data FIFO, programmable in 1 KB increments
- MAC
  - Flow Control Support compliant with the 802.3X specification
  - VLAN support compliant with the 802.1Q specification
  - MAC Address filters: perfect match unicast
  - filters; multicast hash filtering, broadcast filter

  - and promiscuous mode
  - Statistics for management and RMOM
  - MAC loopback
- PHY
  - Compliant with the 1 Gb/s IEEE 802.3 802.3u 802.3ab specifications
  - IEEE 802.3ab auto negotiation support
  - Full duplex operation at 10/100/1000 Mb/s
  - Half duplex at 10/100 Mb/s
  - Auto MDI, MDI-X crossover at all speeds
- High Performance
  - TCP segmentation capability compatible with Large Send offloading features
  - Support up to 256 KB TCP segmentation (TSO v2)
  - Fragmented UDP checksum offload for packet reassemble
  - IPv4 and IPv6 checksum offload support (receive, transmit, and large send)
  - Split header support
  - Receive Side Scaling (RSS) with two hardware receive queues
  - 9 KB jumbo frame support
  - 40 KB packet buffer size
- Low Power
  - Magic Packet* wake-up enable with unique MAC address
  - ACPI register set and power down functionality supporting D0 and D3 states
  - Full wake up support (APM and ACPI 2.0)
  - Smart power down at S0 no link and Sx no link
  - LAN disable function

POC-227G contains two standard RJ-45 Jacks.

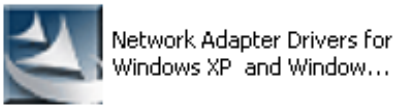
- LAN1 (near AC-IN jack) is controlled by Intel 82567LM.
- LAN2 is controlled by Intel 82574L.

6.2 Installation of the Ethernet Driver

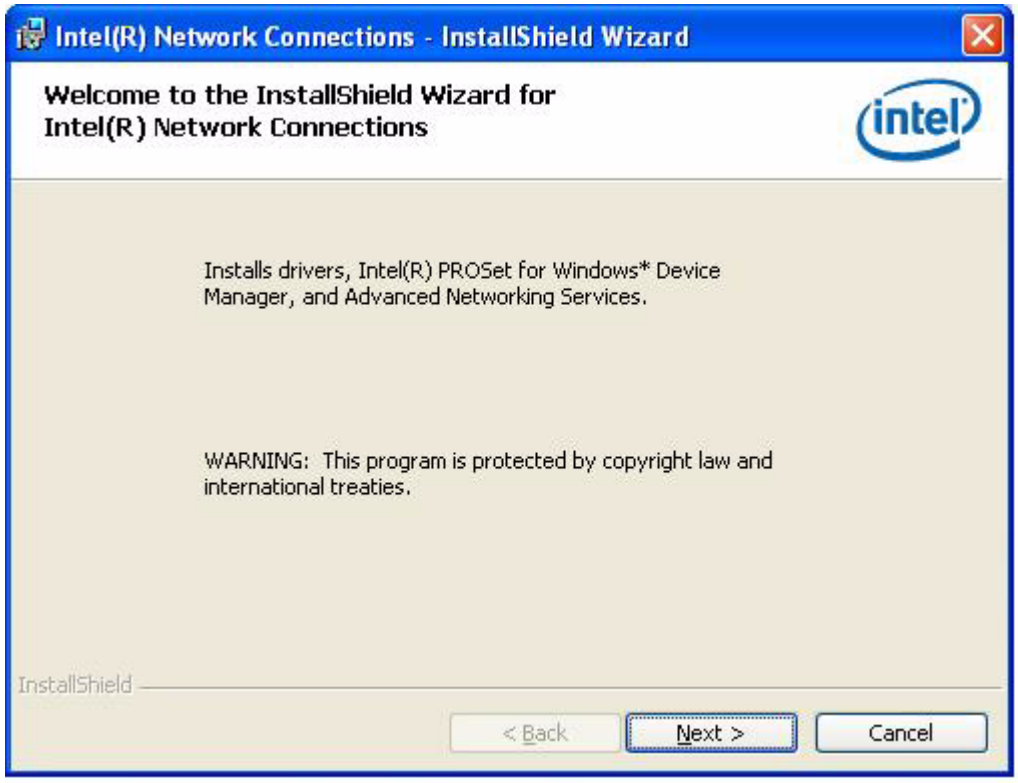
6.2.1 Installation for Windows XP

Caution! *Both LAN ports use same LAN driver, the drive only needs to be installed once.*

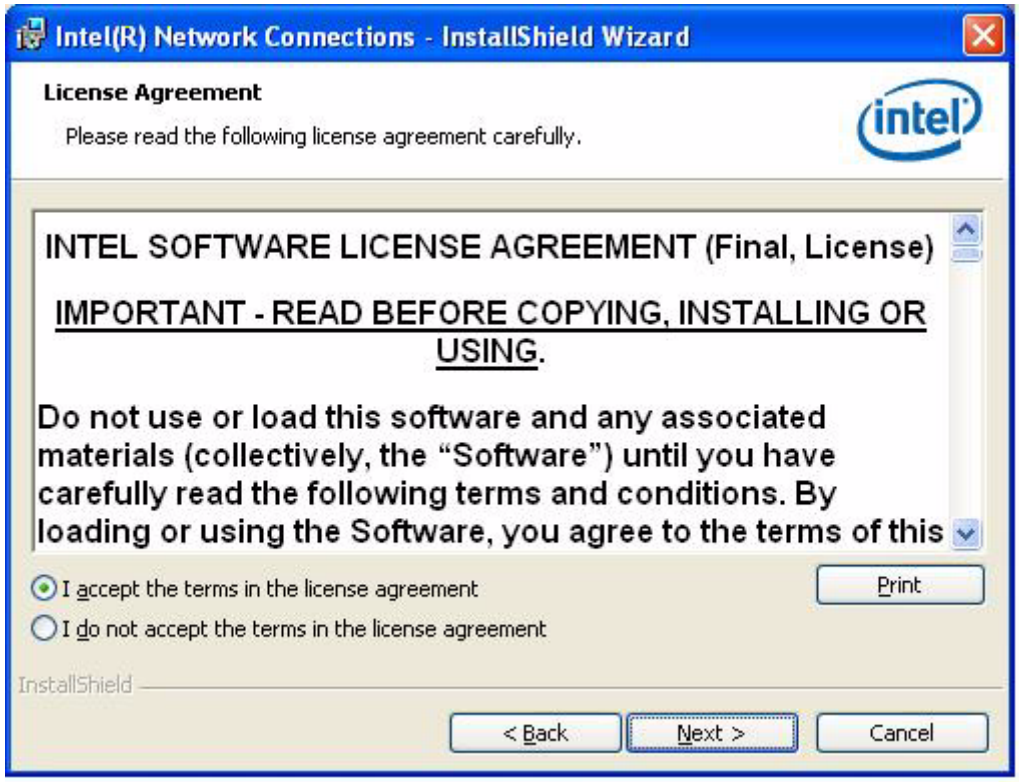
1. Double Click "Network Adapter Drivers for Windows XP and Windows Server 2003 .exe" in D:\Driver\XP\Ethernet folder. The Install dialog will appear.



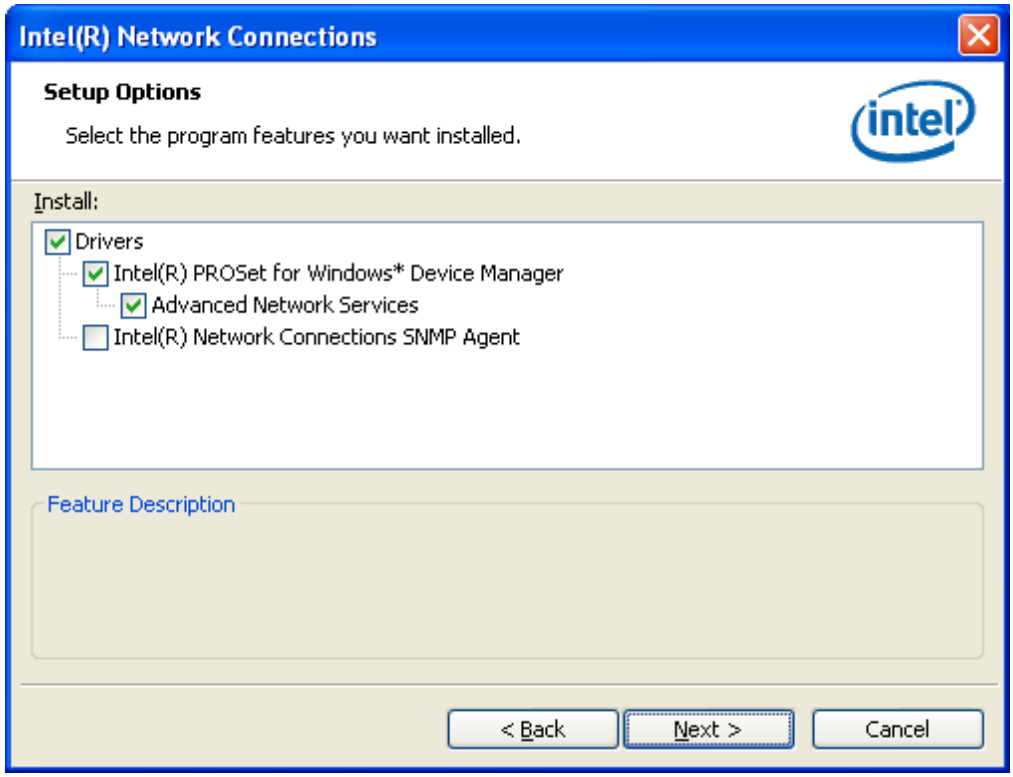
2. Click “Next” to continue.


Intel(R) Network Connections - InstallShield Wizard
Welcome to the InstallShield Wizard for
Intel(R) Network Connections
intel
Installs drivers, Intel(R) PROSet for Windows* Device
Manager, and Advanced Networking Services.
WARNING: This program is protected by copyright law and
international treaties.
InstallShield
< Back
Next >
Cancel

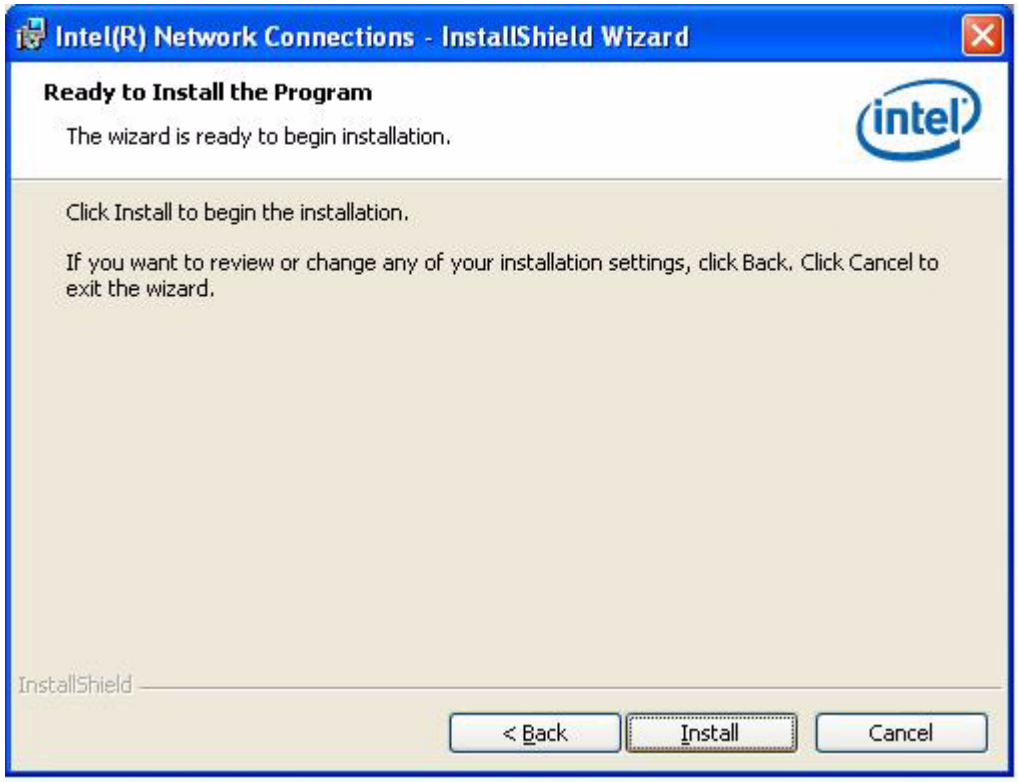
3. Read the license agreement and select "I accept the terms in the license Agreement" and click 'Next' to proceed.


Intel(R) Network Connections - InstallShield Wizard
License Agreement
Please read the following license agreement carefully.
INTEL SOFTWARE LICENSE AGREEMENT (Final, License)
IMPORTANT - READ BEFORE COPYING, INSTALLING OR USING.
Do not use or load this software and any associated materials (collectively, the "Software") until you have carefully read the following terms and conditions. By loading or using the Software, you agree to the terms of this
I accept the terms in the license agreement
I do not accept the terms in the license agreement
Print
InstallShield
< Back
Next >
Cancel

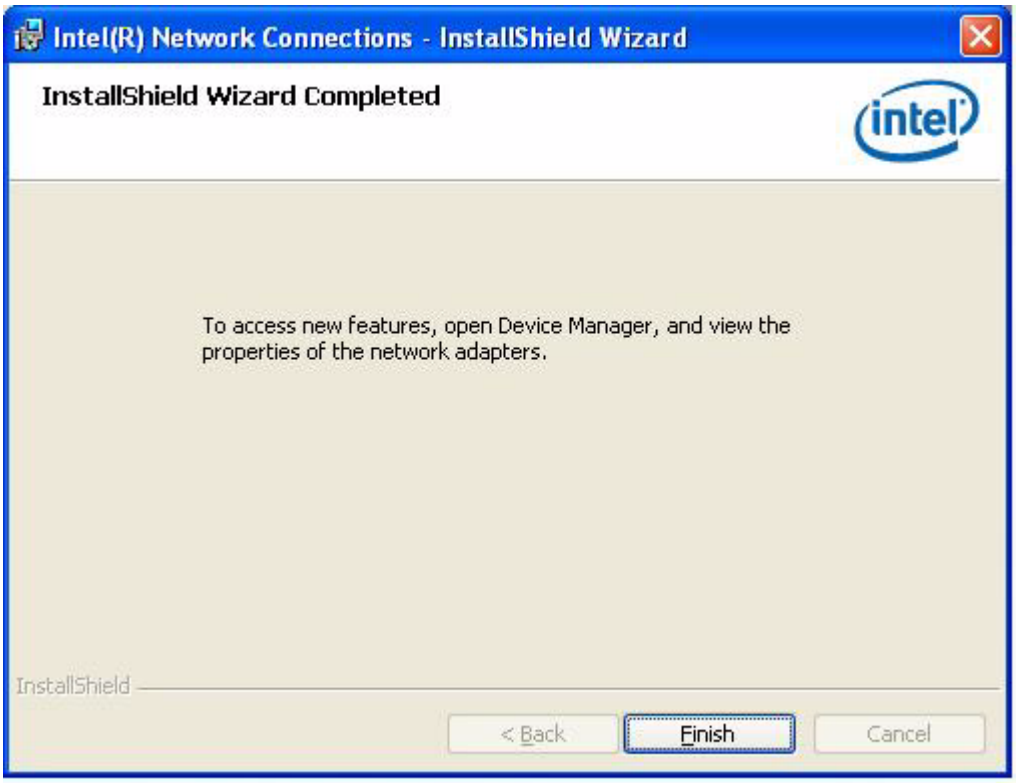
4. When the 'Setup Options' message appears click 'Next' to proceed.



5. When the 'Ready to Install the program' message appears click 'Install' to proceed.


Intel(R) Network Connections - InstallShield Wizard
Ready to Install the Program
The wizard is ready to begin installation.
Click Install to begin the installation.
If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.
InstallShield
< Back
Install
Cancel

6. Several install progress messages will appear; please wait several minutes for the installation to complete.
7. When the 'InstallShield Wizard Complete' message appears click 'Finish' to finish the install program.


Intel(R) Network Connections - InstallShield Wizard
InstallShield Wizard Completed
To access new features, open Device Manager, and view the properties of the network adapters.
InstallShield
< Back
Finish
Cancel

6.3 Further Information

For further information about the installation on your POC-227G, including driver updates, troubleshooting guides and FAQ lists, please visit the following web resources:

Intel website:http:// www.intel.com

Advantech websites:http://www.advantech.com

http://www.advantech.com.tw

Chapter 7

Touch Panel

Sections include:

- Introduction
- Installation of Touch Panel Driver
- Further Information

7.1 Introduction

The POC-227G is supported by a system integrated touch panel. The touch panel controller is control by the system COM6 interface.

There are two kinds of touch, one is SAW touch, and another one is Resistive touch.

Please install the proper driver based on your hardware configuration.

Caution! *Please don't install both the SAW Touch driver and the Resistive Touch driver on same system. Only install one touch driver based on your hardware configuration.*

7.1.1 SAW Touch Controller

Elo Touch 2701 control board (Elo Part Number D68054-000)

7.1.2 Resistive Touch Controller

SALT AMT PenMount 6200A control board (SALT AMT Part number: PM6200A5)

The POC-227G is supported with a system integrated touch panel. The touch panel controller is controlled by the system COM6 interface.

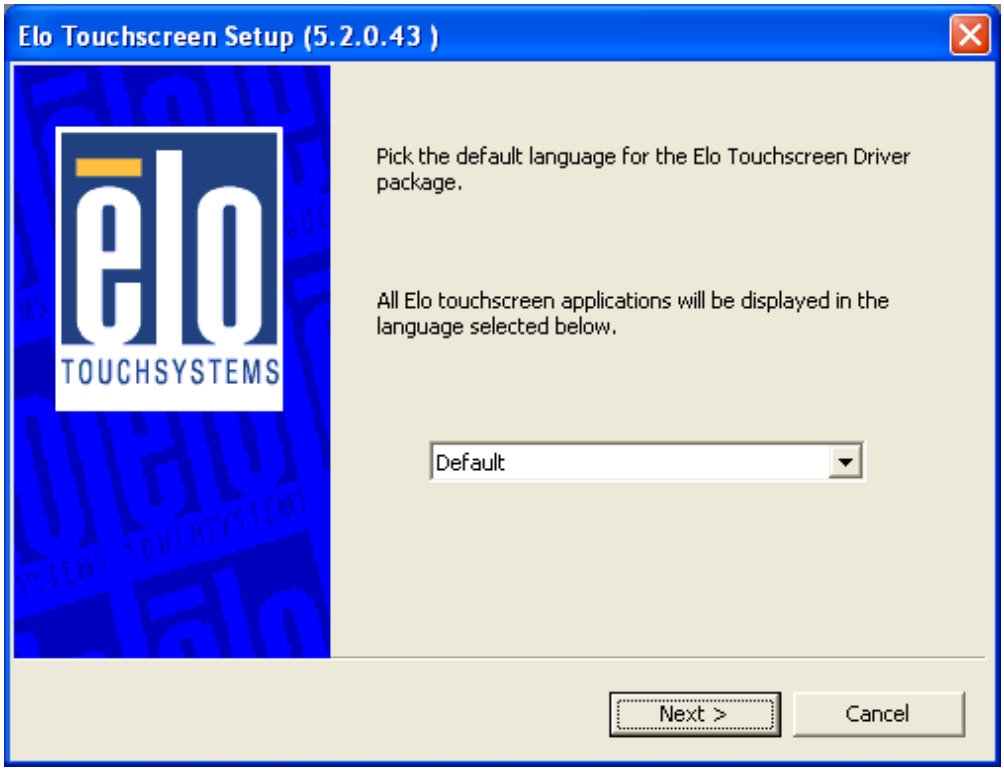
7.2 Installation of Touch Panel Driver

7.2.1 Installation for SAW Touch driver

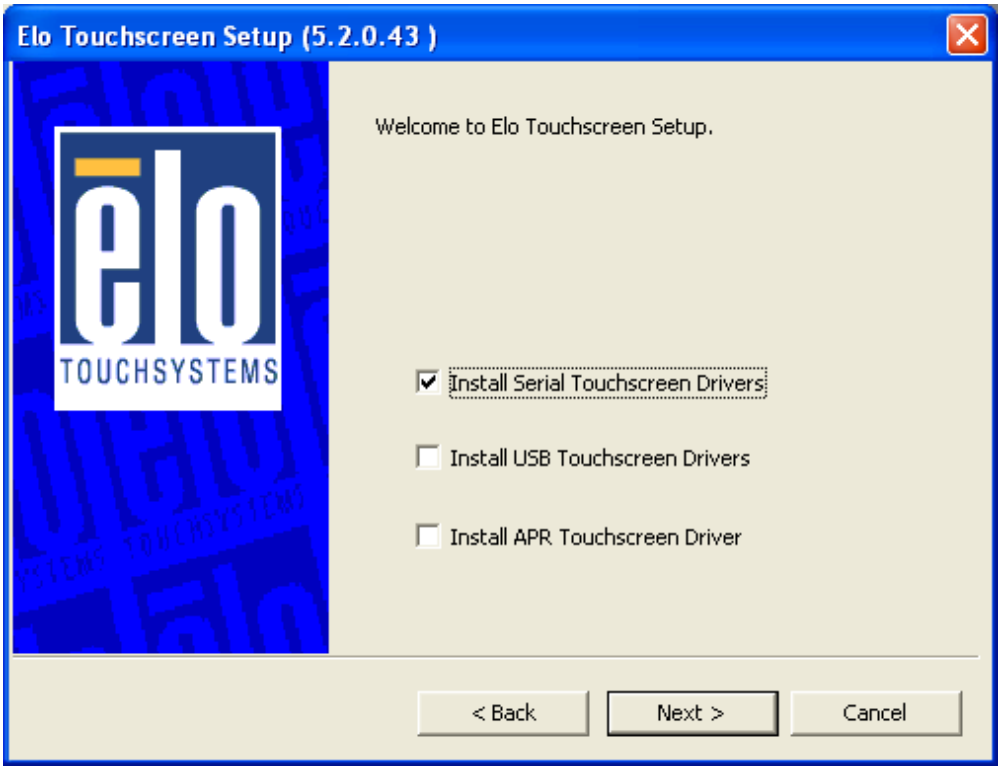
Caution! *Please don't install both the SAW Touch driver and the Resistive Touch driver at same system. Only install one touch driver based on your hardware configuration.*

1. Double Click "Install.bat" in "D:\Driver\XP\ELO SAW Touch Driver and Tool\ELO SAW Touch Driver" folder. The Install dialog will appear.

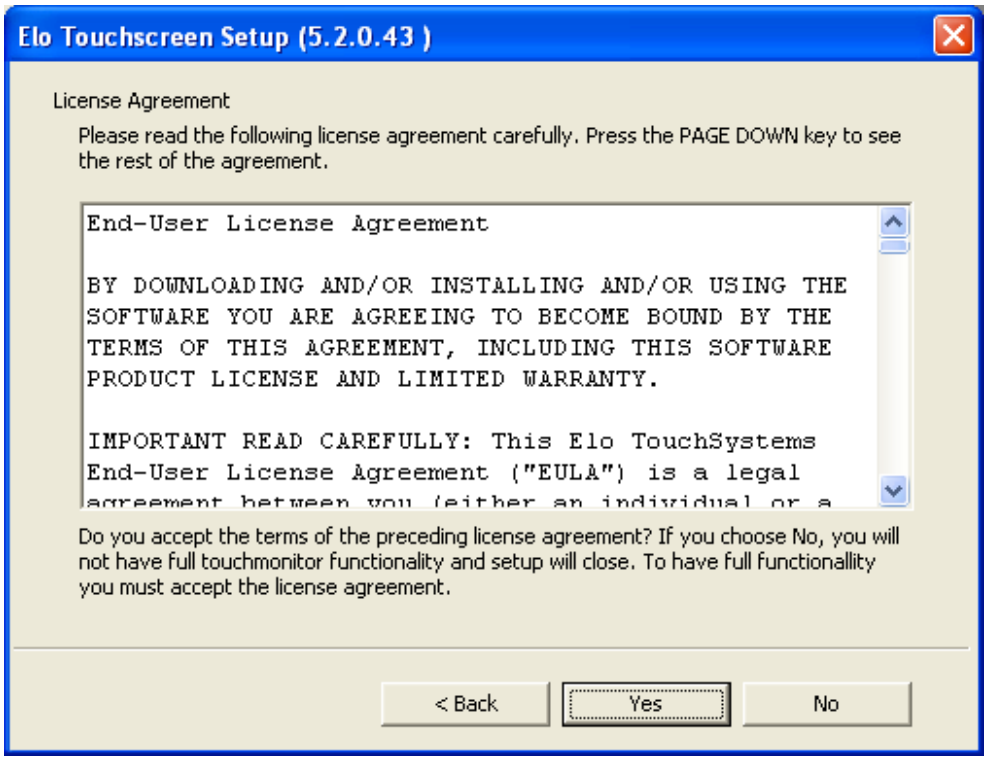
2. "Elo Touchscreen Setup" will appear; click 'Next' to continue.


Elo Touchscreen Setup (5.2.0.43)
TOUCHSYSTEMS
Pick the default language for the Elo Touchscreen Driver package.
All Elo touchscreen applications will be displayed in the language selected below.
Default
Next >
Cancel

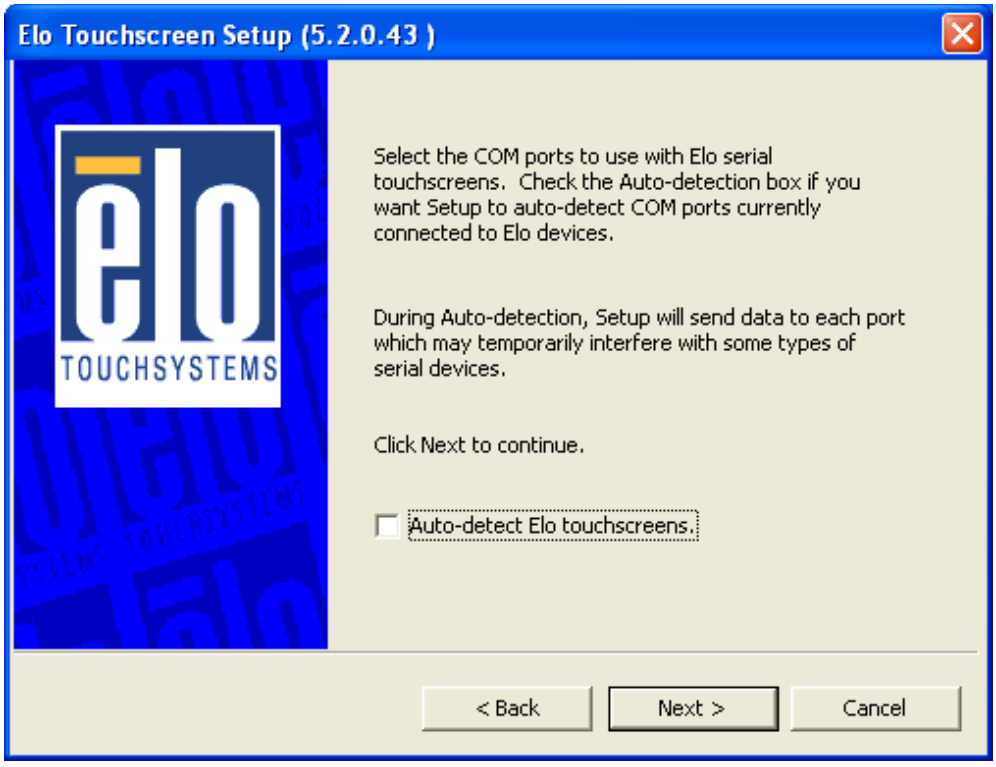
3. Select "Install Serial Touchscreen Drivers" and click "Next" to continue.



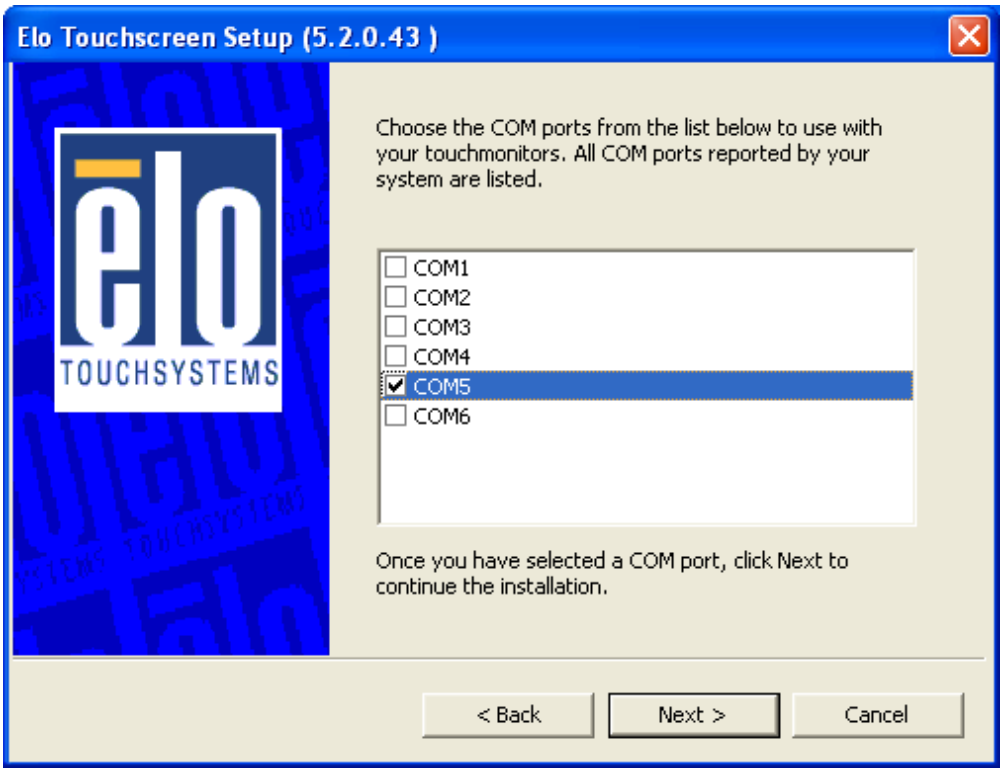
4. Read License Agreement and click 'Yes' to proceed.


Elo Touchscreen Setup (5.2.0.43)
License Agreement
Please read the following license agreement carefully. Press the PAGE DOWN key to see the rest of the agreement.
End-User License Agreement
BY DOWNLOADING AND/OR INSTALLING AND/OR USING THE SOFTWARE YOU ARE AGREEING TO BECOME BOUND BY THE TERMS OF THIS AGREEMENT, INCLUDING THIS SOFTWARE PRODUCT LICENSE AND LIMITED WARRANTY.
IMPORTANT READ CAREFULLY: This Elo TouchSystems End-User License Agreement ("EULA") is a legal
Do you accept the terms of the preceding license agreement? If you choose No, you will not have full touchmonitor functionality and setup will close. To have full functionallity you must accept the license agreement.
< Back
Yes
No

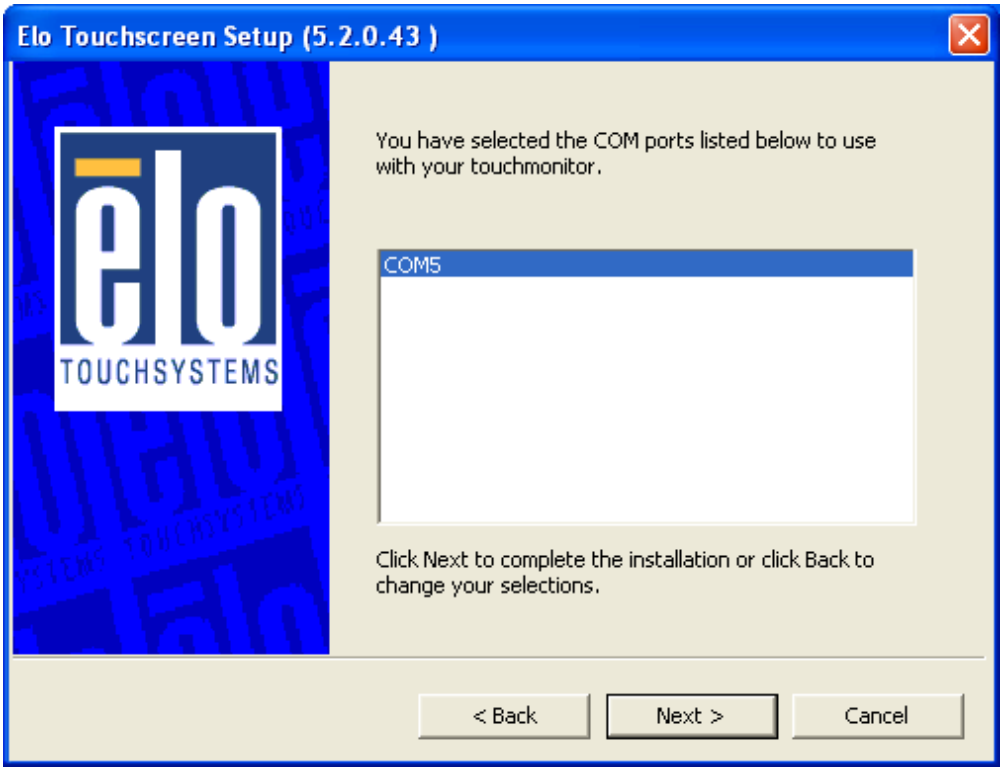
5. Please don't select "Auto-detect Elo Touch screens"; click "Next" to process.


Elo Touchscreen Setup (5.2.0.43)
TOUCHSYSTEMS
Select the COM ports to use with Elo serial touchscreens. Check the Auto-detection box if you want Setup to auto-detect COM ports currently connected to Elo devices.
During Auto-detection, Setup will send data to each port which may temporarily interfere with some types of serial devices.
Click Next to continue.
Auto-detect Elo touchscreens.
< Back
Next >
Cancel

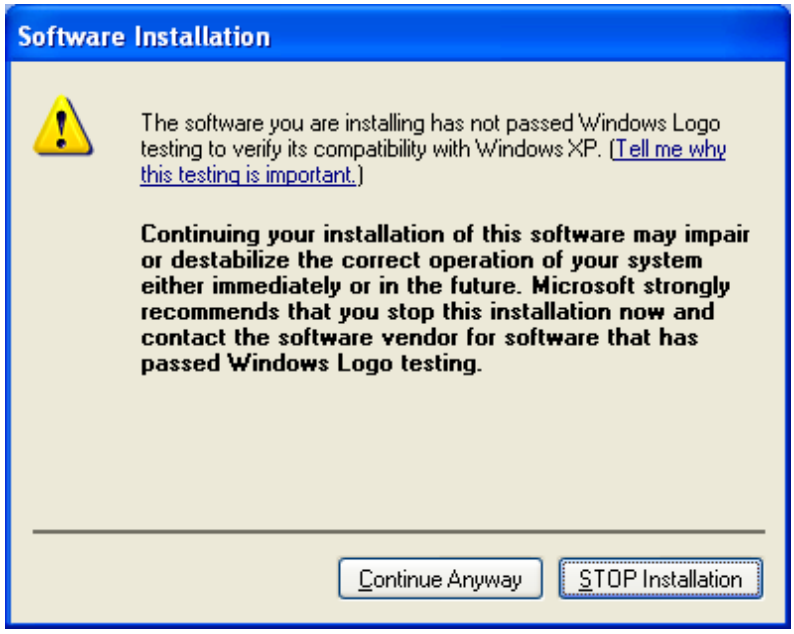
6. Select "COM5" and click 'Next' to continue.


Elo Touchscreen Setup (5.2.0.43)
TOUCHSYSTEMS
Choose the COM ports from the list below to use with your touchmonitors. All COM ports reported by your system are listed.
COM1
COM2
COM3
COM4
COM5
COM6
Once you have selected a COM port, click Next to continue the installation.
< Back
Next >
Cancel

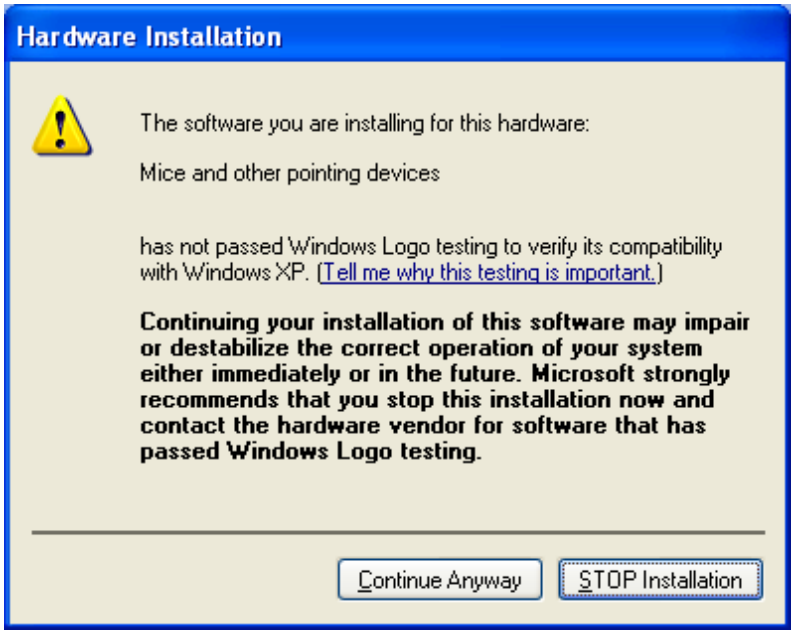
7. Confirm the installation lists COM5, click 'Next' to continue.


Elo Touchscreen Setup (5.2.0.43)
TOUCHSYSTEMS
You have selected the COM ports listed below to use with your touchmonitor.
COM5
Click Next to complete the installation or click Back to change your selections.
< Back
Next >
Cancel

8. To click "Continue Anyway" to keep installation processing.


Software Installation
The software you are installing has not passed Windows Logo testing to verify its compatibility with Windows XP. (Tell me why this testing is important.)
Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the software vendor for software that has passed Windows Logo testing.
Continue Anyway
STOP Installation

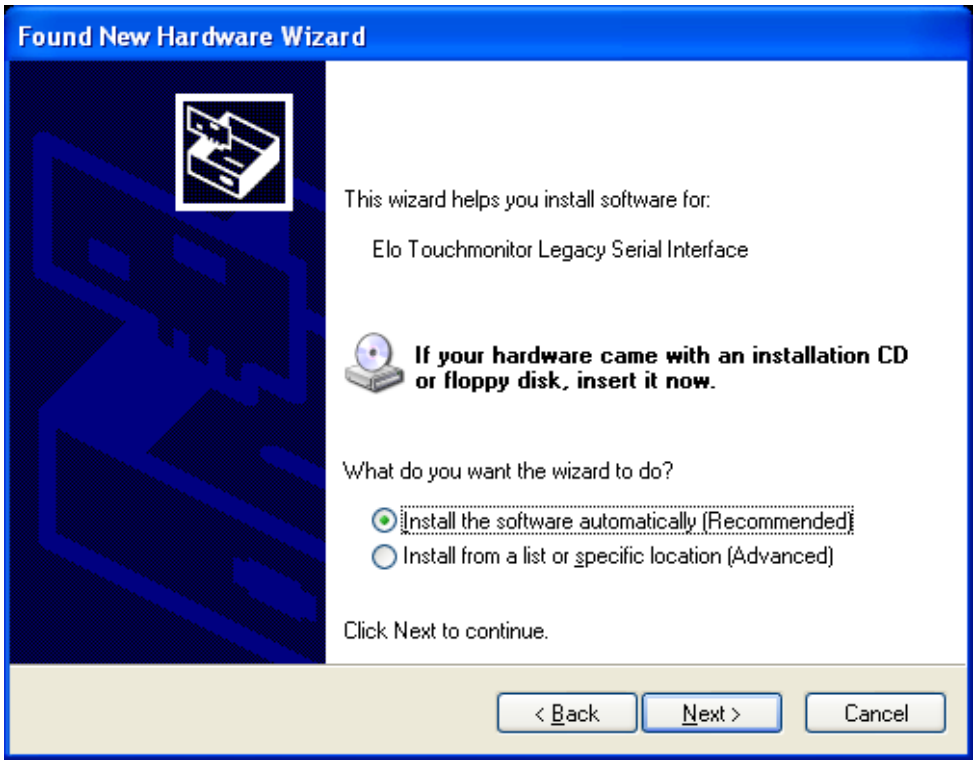
9. To click "Continue Anyway" to keep installation processing.


Hardware Installation
The software you are installing for this hardware:
Mice and other pointing devices
has not passed Windows Logo testing to verify its compatibility with Windows XP. (Tell me why this testing is important.)
Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing.
Continue Anyway
STOP Installation

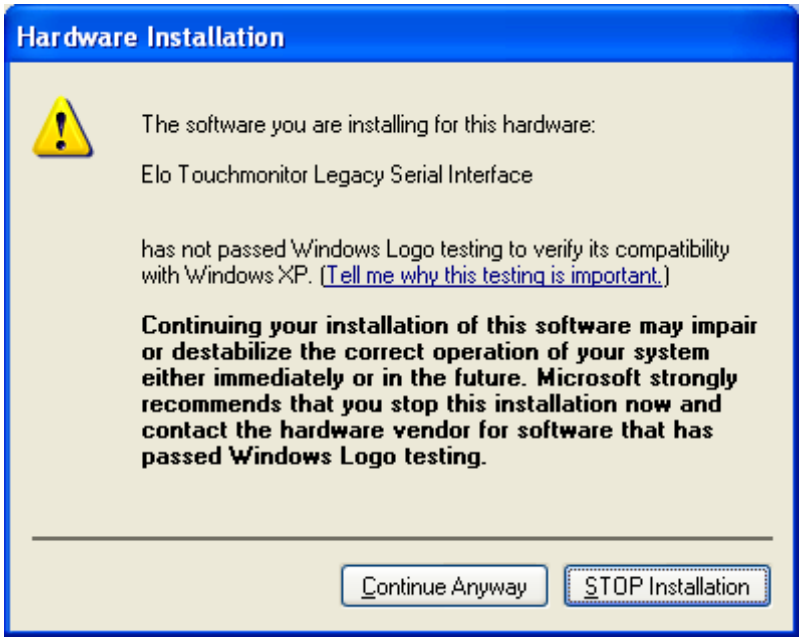
10. Choose "No, not this time" and click Next to continue.

Found New Hardware Wizard
Welcome to the Found New Hardware Wizard
Windows will search for current and updated software by looking on your computer, on the hardware installation CD, or on the Windows Update Web site (with your permission).
Read our privacy policy
Can Windows connect to Windows Update to search for software?
Yes, this time only
Yes, now and every time I connect a device
No, not this time
Click Next to continue.
< Back
Next >
Cancel

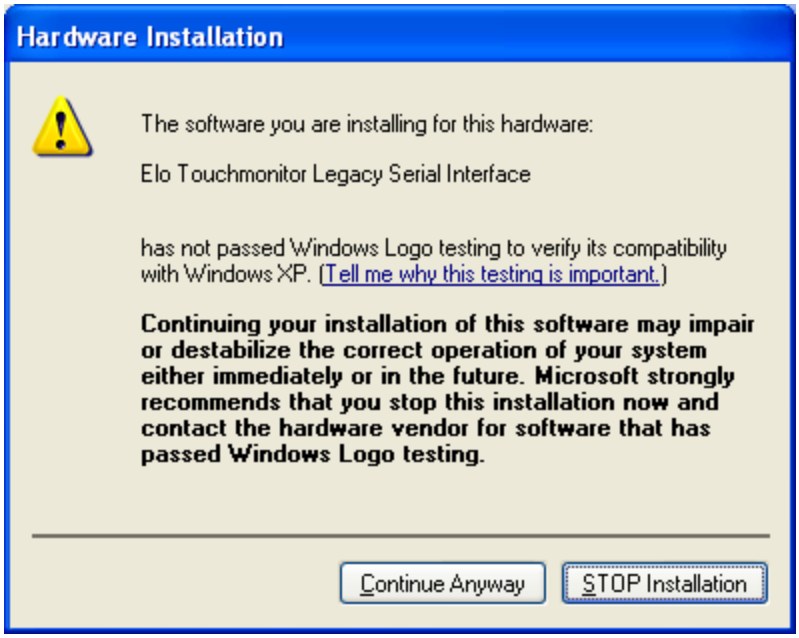
11. Choose "Install the software automatically" and click Next to continue.


Found New Hardware Wizard
This wizard helps you install software for:
Elo Touchmonitor Legacy Serial Interface
If your hardware came with an installation CD or floppy disk, insert it now.
What do you want the wizard to do?
Install the software automatically (Recommended)
Install from a list or specific location (Advanced)
Click Next to continue.
< Back
Next >
Cancel

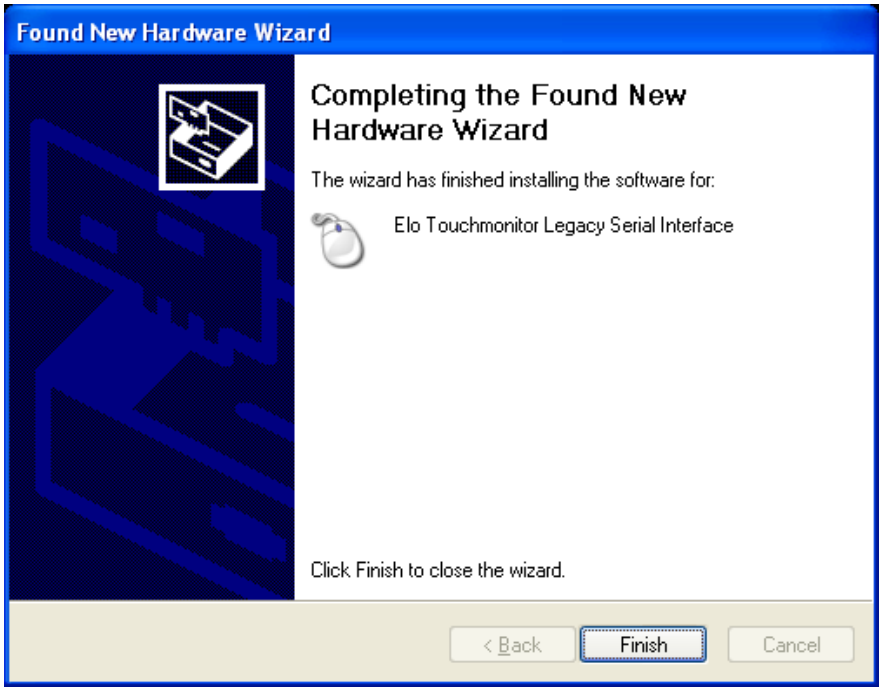
12. To click "Continue Anyway" to keep installation processing.


Hardware Installation
The software you are installing for this hardware:
Elo Touchmonitor Legacy Serial Interface
has not passed Windows Logo testing to verify its compatibility with Windows XP. (Tell me why this testing is important.)
Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing.
Continue Anyway
STOP Installation

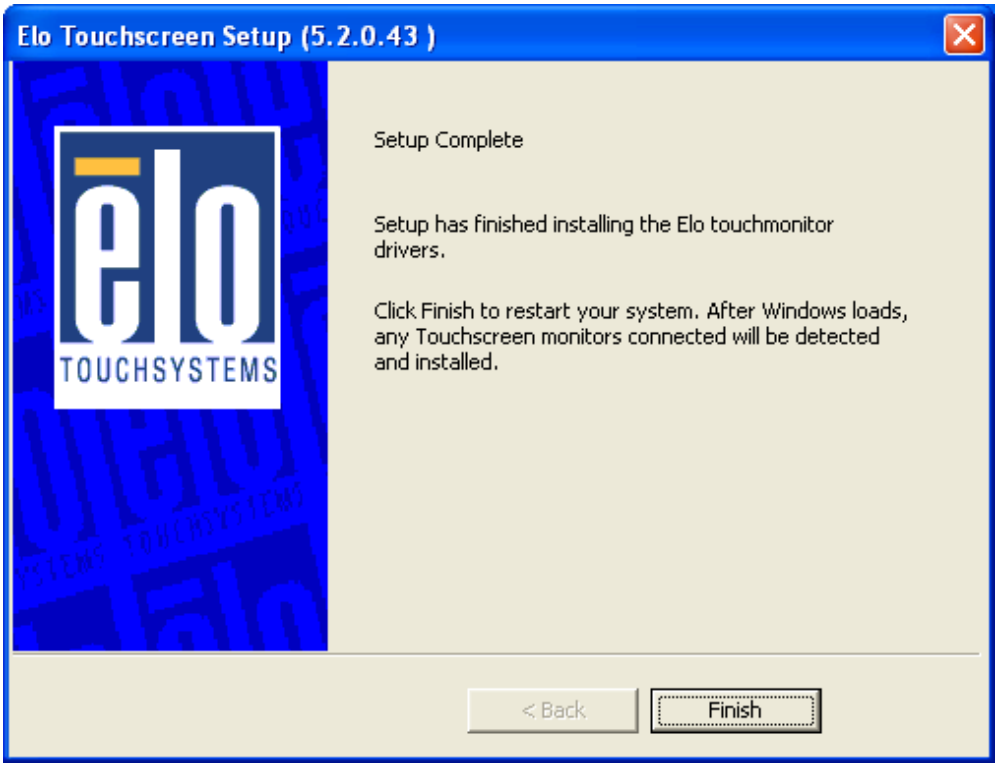
13. To click "Continue Anyway" to keep installation processing.


Hardware Installation
The software you are installing for this hardware:
Elo Touchmonitor Legacy Serial Interface
has not passed Windows Logo testing to verify its compatibility with Windows XP. (Tell me why this testing is important.)
Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing.
Continue Anyway
STOP Installation

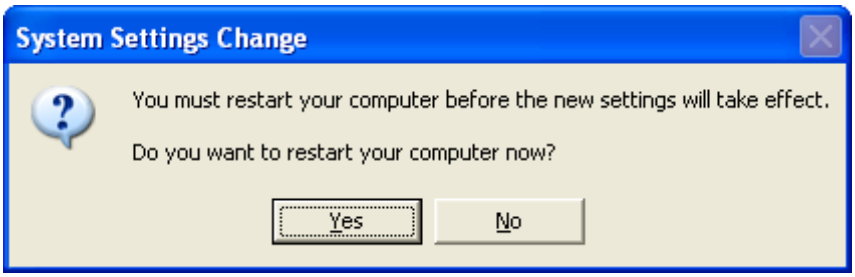
14. To click "Finish" to keep installation processing.


Found New Hardware Wizard
Completing the Found New Hardware Wizard
The wizard has finished installing the software for:
Elo Touchmonitor Legacy Serial Interface
Click Finish to close the wizard.
< Back
Finish
Cancel

15. SAW Touch driver install complete, click 'Finish' to complete.

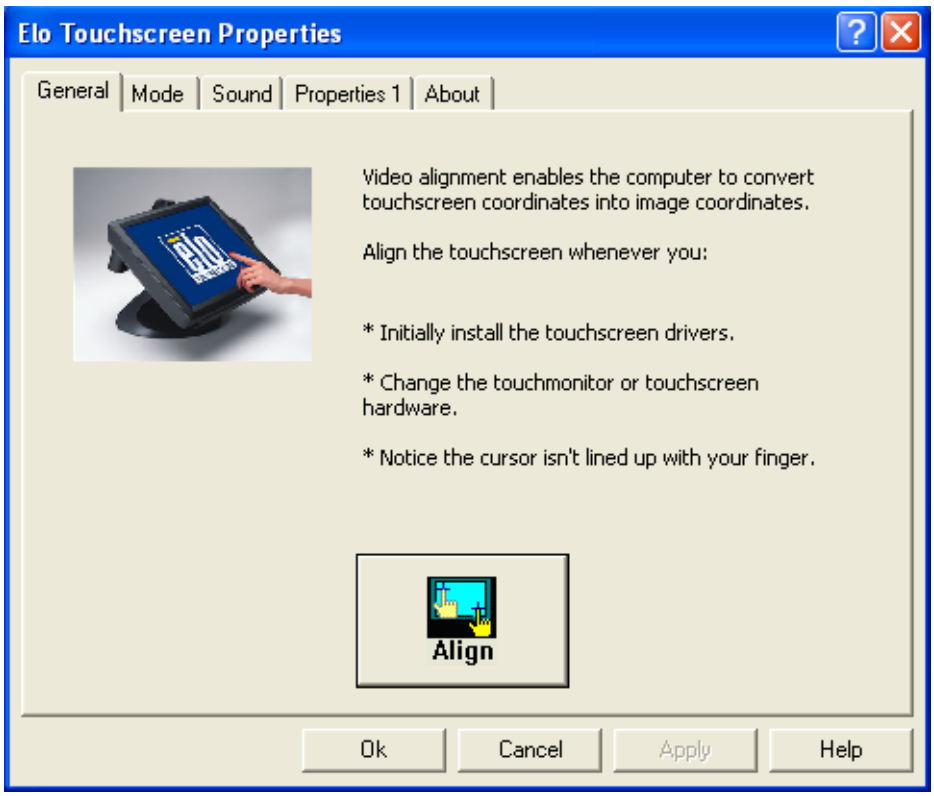

Elo Touchscreen Setup (5.2.0.43)
TOUCHSYSTEMS
Setup Complete
Setup has finished installing the Elo touchmonitor drivers.
Click Finish to restart your system. After Windows loads, any Touchscreen monitors connected will be detected and installed.
< Back
Finish

16. Click "Yes" to restart you computer to make new settings effective.

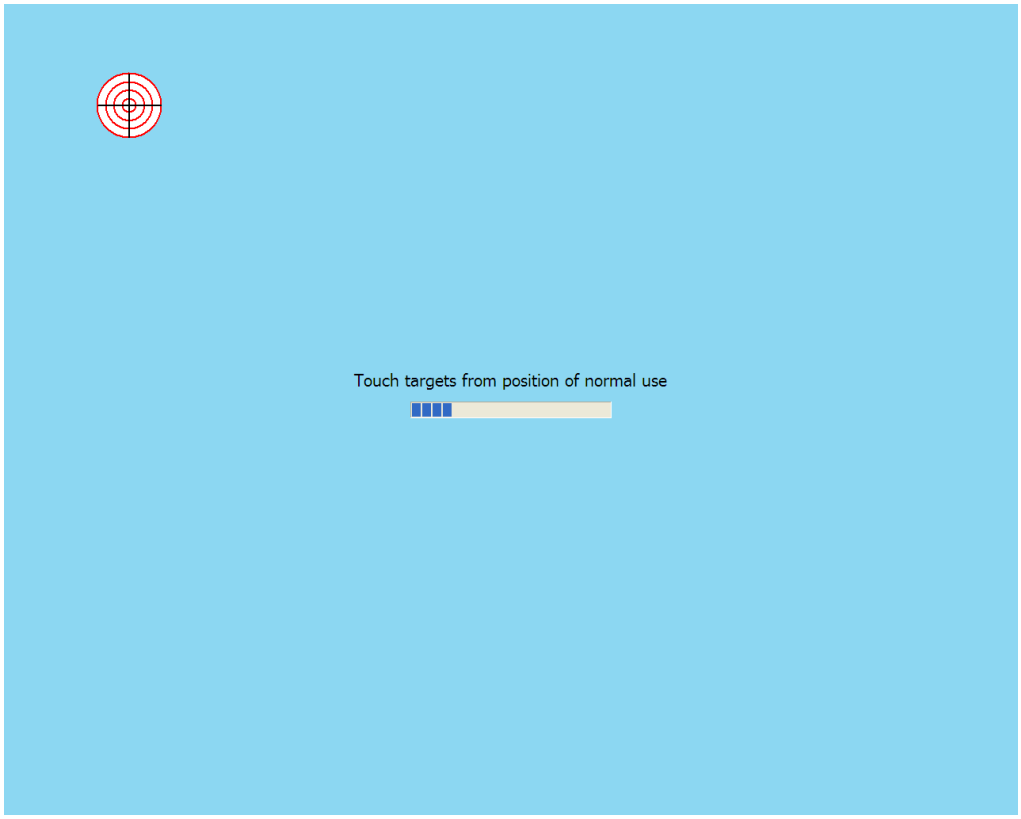

System Settings Change
You must restart your computer before the new settings will take effect.
Do you want to restart your computer now?
Yes
No

17. Before starting using SAW Touch, please double click "Elo Touchscreen" icon on the right corner of Windows toolbar.

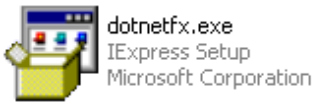
18. Click "Align" to run calibration process.



19. Please touch each "X" icon at corner and release. And touch another "X" icon to complete calibrate process. Total three "X" icon should be touch.



20. To run SAW Touch Enable/Disable Utility, Dot Net Framework 2.0 or above is necessary. Please run "dotnetfx.exe" installation from "D:\ELO SAW Touch Driver and Tool\ELO SAW Touch Enable Disable Utility" fold.

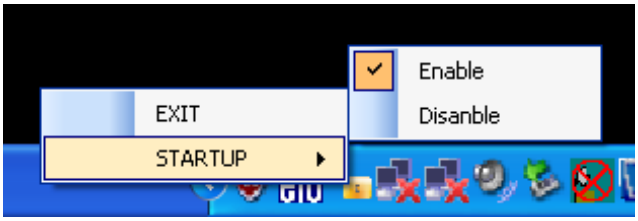


21. To install SUSI from D:\ELO SAW Touch Driver and Tool\ELO SAW Touch Enable Disable Utility\SUSI.

22. Copy "D:\ELO SAW Touch Driver and Tool\ELO SAW Touch Enable Disable Utility\Utility" this fold into C:\, and run "WindowsFormsApplication1.exe". Then, users can switch SAW Touch enable/disable by pressing on the front panel.

Note! *After install "ELO SAW Touch Enable Disable Utility" well, there is an icon will appear on the right corner of Windows Tool Bar. Please see the picture below.*

Right-Click mouse on this icon, the default setting of this utility shows "Enable". That means SAW Touch enable/disable status can be switched by pressing on the front panel.



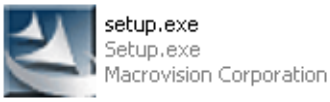
"Disable" means this utility will not execute at startup.

SAW Touch will not be disabled via pressing .

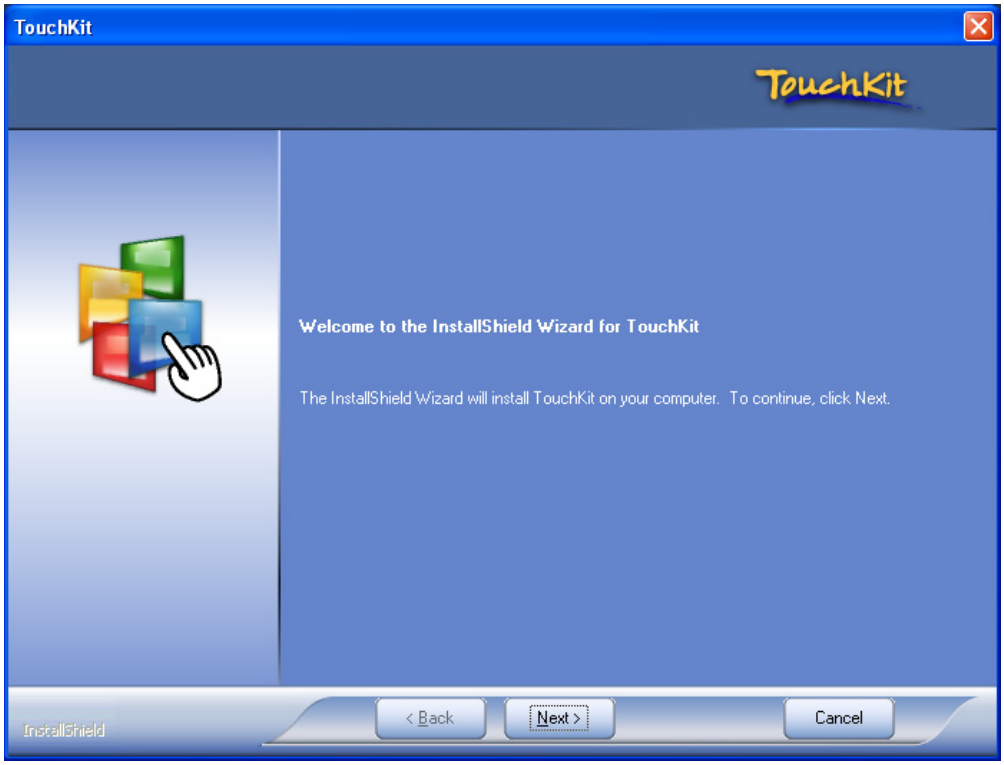
"EXIT" will stop utility running right away, SAW Touch will not be disabled via pressing , until next system re-start/reboot.

7.2.2 Installation for Resistive Touch Driver

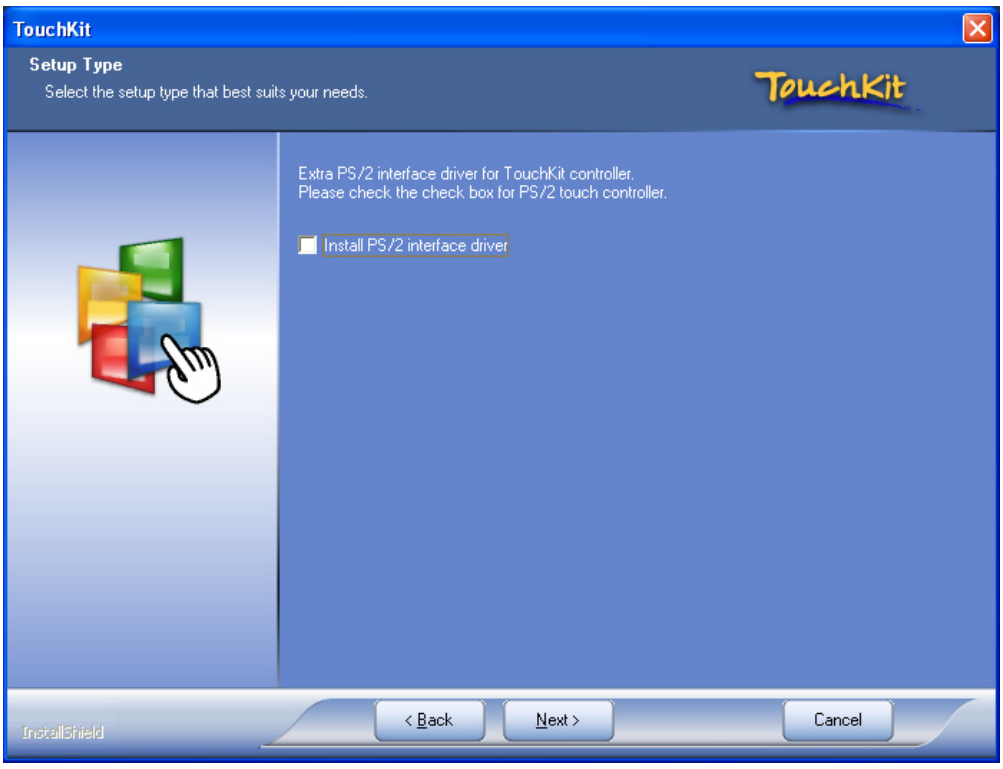
1. Double Click "Setup.exe" in D:\Driver\XP\Touch EETI folder. The Install dialog will appear.



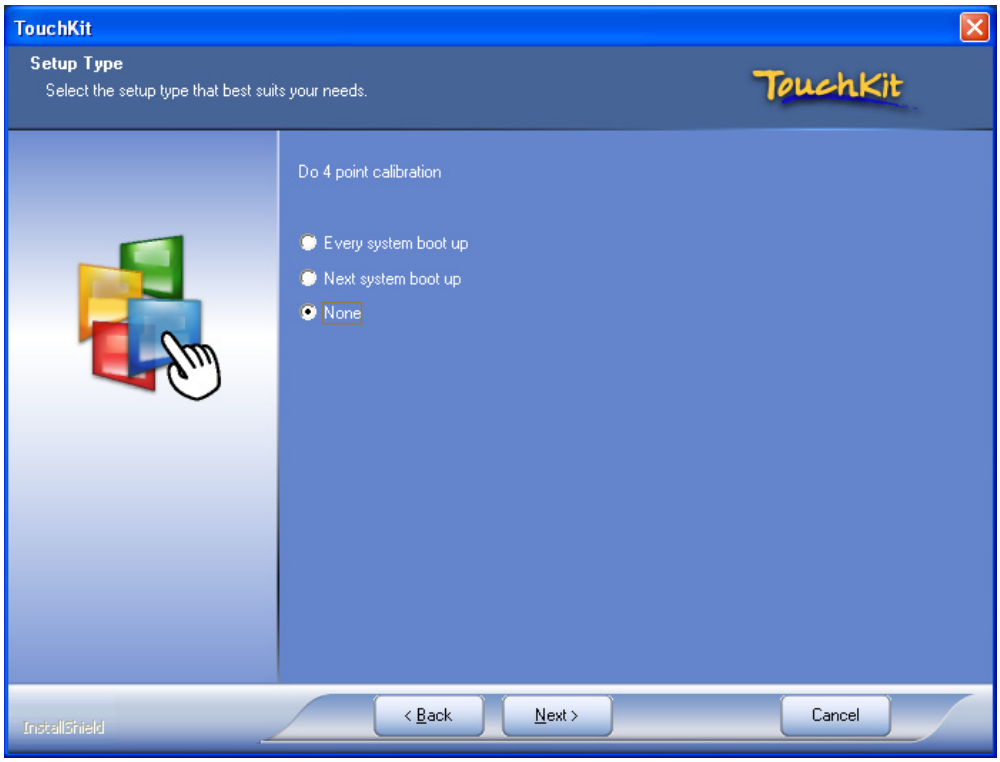
2. Click "Next" to continue.


TouchKit
TouchKit
Welcome to the InstallShield Wizard for TouchKit
The InstallShield Wizard will install TouchKit on your computer. To continue, click Next.
InstallShield
< Back
Next >
Cancel

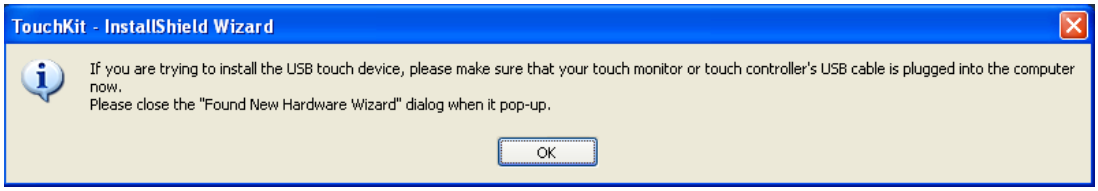
3. Click "Next" to continue.
Because POC-227G's touch controller is controlled by COM6, please do not select the "Install PS/2 interface driver".



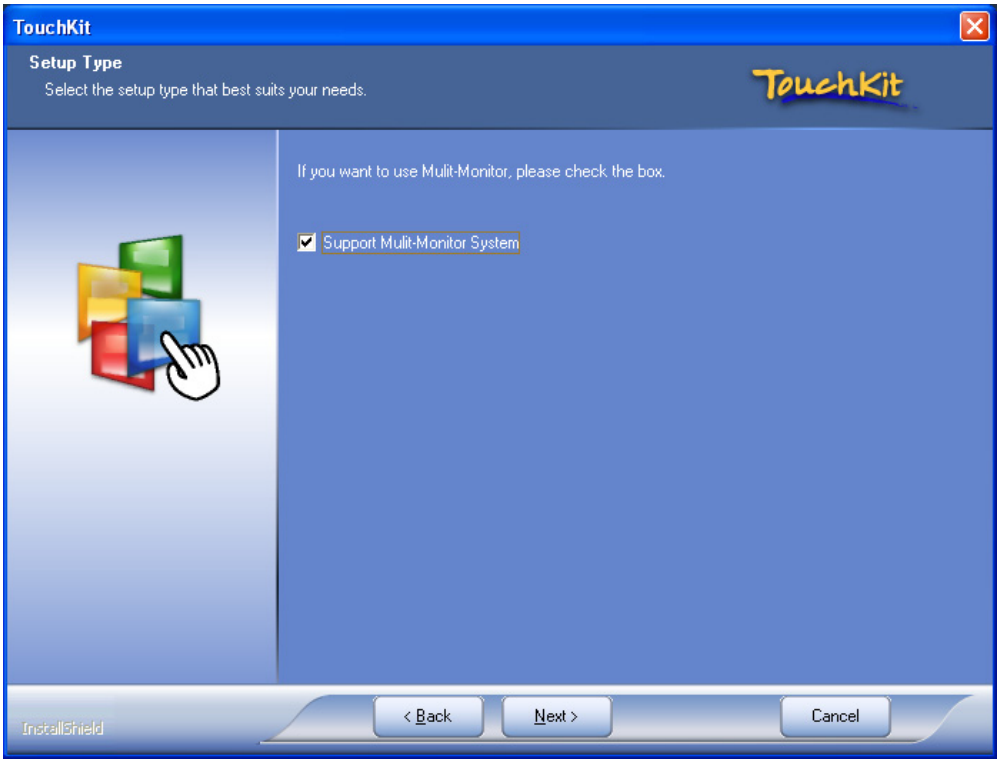
4. Click "Next" to continue.
Please select "None" for "Do 4 point calibration". The driver install program will do this 4 point calibration when the install completes.



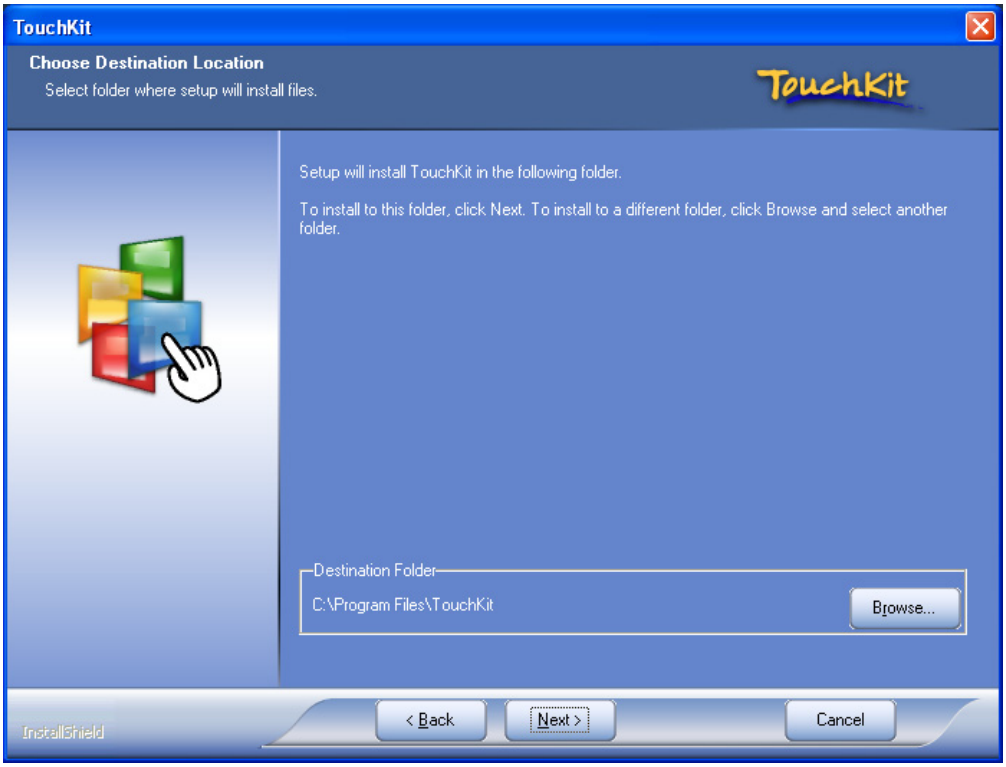
5. Click "OK" to continue.


TouchKit - InstallShield Wizard
If you are trying to install the USB touch device, please make sure that your touch monitor or touch controller's USB cable is plugged into the computer now.
Please close the "Found New Hardware Wizard" dialog when it pop-up.
OK

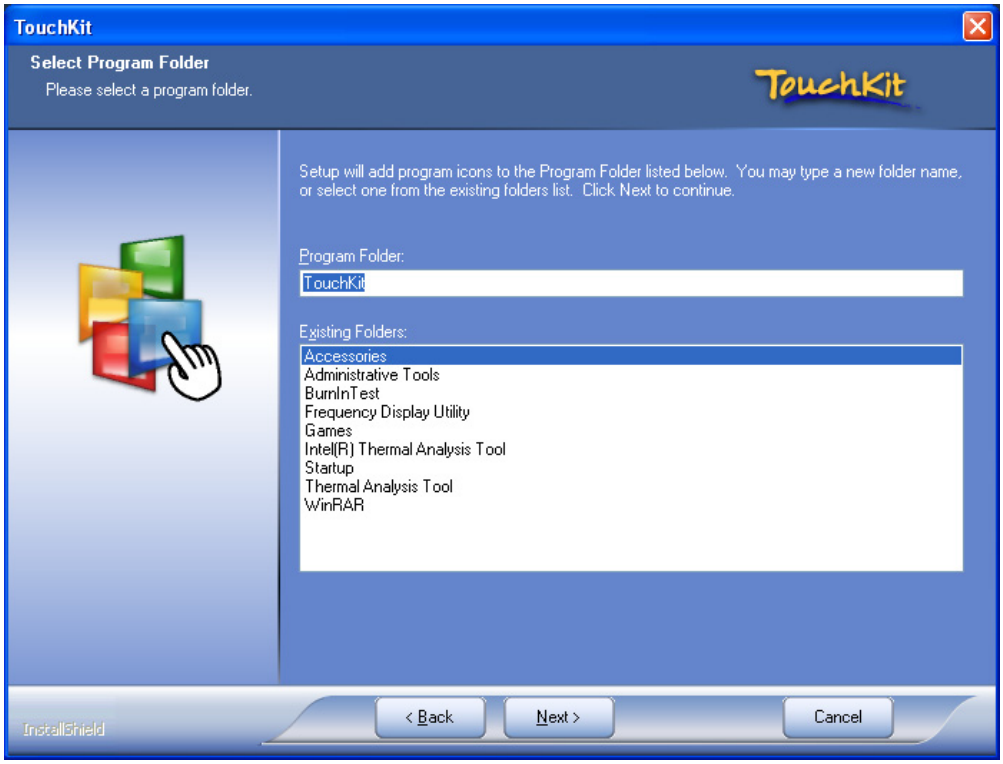
6. Click "Next" to continue. Please select "Support Multi-Monitor System".



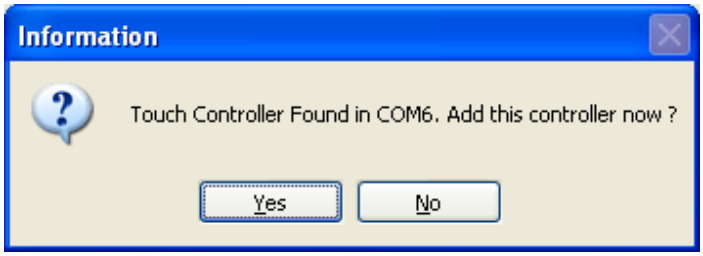
7. Click "Next" to continue.
   If you want to change the driver destination folder, you can click the "Browse" button to change the folder.


TouchKit
Choose Destination Location
Select folder where setup will install files.
TouchKit
Setup will install TouchKit in the following folder.
To install to this folder, click Next. To install to a different folder, click Browse and select another folder.
Destination Folder
C:\Program Files\TouchKit
Browse...
InstallShield
< Back
Next >
Cancel

8. Click "Next" to continue.

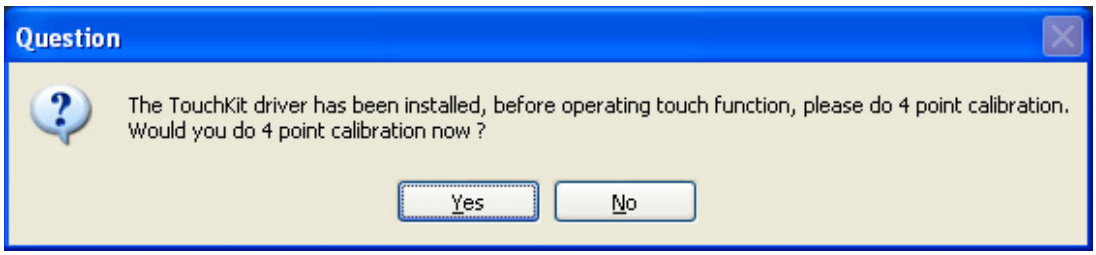


9. Click "Yes" to continue.
   The install program will search the touchscreen controller, and find it on COM6.



Calibrate the Panel:

10. Click "Yes" to continue.
    Please do 4 point calibration to calibrate the touch screen.


Question
The TouchKit driver has been installed, before operating touch function, please do 4 point calibration.
Would you do 4 point calibration now ?
Yes
No

11. Touch 'X' once at each of the 4 corners on the panel.
    Please touch each "X" icon at the corners until the icon stops blinking.

7.3 Further Information

For further information about the installation on your POC-227G, including driver updates, troubleshooting guides and FAQ lists, please visit the following web resources:

Elo Touch website: http://www.elotouch.com

Advantech websites: http://www.advantech.com

http://www.advantech.com.tw

Chapter 8

RFID

Sections include:

- Introduction
- Driver installation
- Further information

8.1 Introduction

POC-227G contains an ASTAG PMHNFC0003 RFID module.

RFID readers help nurses identify patients, and verify themselves as authorized car-egivers, as well as reducing prescription errors

Features:

- HF READER SUPPORT
- ISO-14443A, ISO-14443B, ISO-15693, Felic, ISO-18000-3 mode 1, Mifare UltraLight
- Near Field Communication
- NFCIP-1, NFCIP-2, ISO-18092 Compliant, Peer to Peer Communication, Bit rate from 106k up to 848 kbps
- FREQUENCY: 13.56 Mhz ±7 KHz

Caution! *RFID is a optional function; please don't install this driver if you didn't install the RFID module.*

8.2 Driver Installation

1. Double Click "RFIDUSBDriver.exe" in D:\Driver\XP\RFID folder. The Install dialog will appear.

2. Click "Next" to continue.

Installing RFID USB Driver
Welcome to the RFID USB Driver Installation!
This setup program will install RFID USB Driver on your computer. Click Cancel if you do not want to install this application. Click Next to continue the installation.
WARNING: This program is protected by international copyright law and treaties.
Unauthorized reproduction or distribution of this program, or any portion of it, may result in severe civil and criminal penalties and will be prosecuted to the maximum extent of the law.
CreateInstall Free
Next >
Cancel

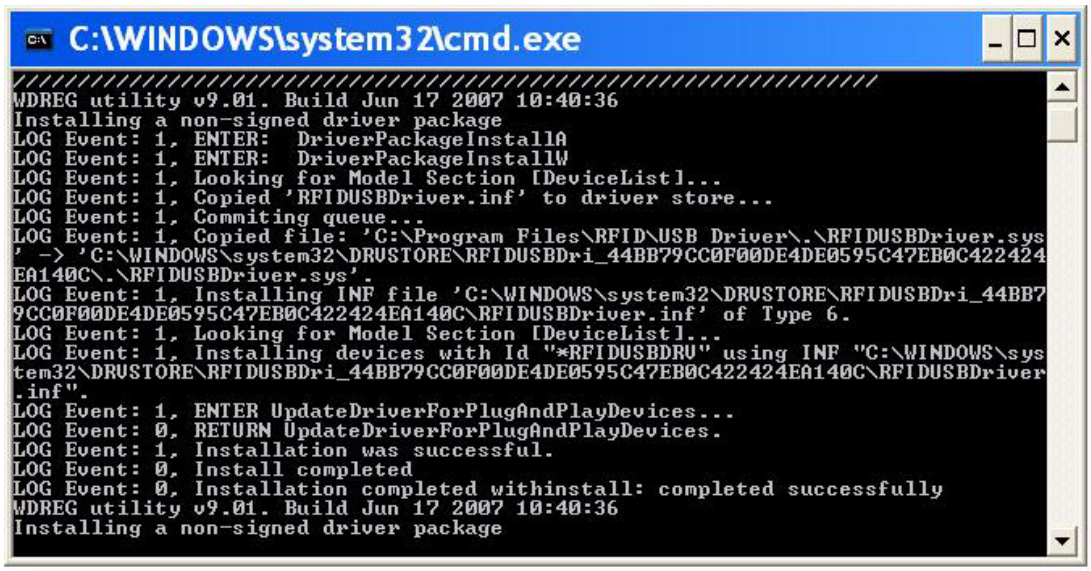
3. Click "Next" to continue.

Installing RFID USB Driver
Destination folder
Select a destination folder where RFID USB Driver will be installed.
Setup will install files in the following folder.
If you would like to install RFID USB Driver into a different folder then click Browse and select another folder.
Destination folder
C:\Program Files\RFID\USB Driver
Browse...
Space required: 765.85KB
Space available: 64.53GB
CreateInstall Free
< Back
Next >
Cancel

4. When the completion message appears, click 'Finish' to finish the install program.

Installing RFID USB Driver
RFID USB Driver has been successfully installed!
Click Finish to complete the installation.
CreateInstall Free
Finish

5. A DOS command window will appear; this window will close automatically.


C:\WINDOWS\system32\cmd.exe
WDREG utility v9.01. Build Jun 17 2007 10:40:36
Installing a non-signed driver package
LOG Event: 1, ENTER: DriverPackageInstallA
LOG Event: 1, ENTER: DriverPackageInstallW
LOG Event: 1, Looking for Model Section [DeviceList]...
LOG Event: 1, Copied 'RFIDUSBDriver.inf' to driver store...
LOG Event: 1, Commiting queue...
LOG Event: 1, Copied file: 'C:\Program Files\RFID\USB Driver\.\RFIDUSBDriver.sys' -> 'C:\WINDOWS\system32\DRVSTORE\RFIDUSBDri_44BB79CC0F00DE4DE0595C47EB0C422424EA140C\.\RFIDUSBDriver.sys'.
LOG Event: 1, Installing INF file 'C:\WINDOWS\system32\DRVSTORE\RFIDUSBDri_44BB79CC0F00DE4DE0595C47EB0C422424EA140C\RFIDUSBDriver.inf' of Type 6.
LOG Event: 1, Looking for Model Section [DeviceList]...
LOG Event: 1, Installing devices with Id "*RFIDUSBDRV" using INF "C:\WINDOWS\system32\DRVSTORE\RFIDUSBDri_44BB79CC0F00DE4DE0595C47EB0C422424EA140C\RFIDUSBDriver.inf".
LOG Event: 1, ENTER UpdateDriverForPlugAndPlayDevices...
LOG Event: 0, RETURN UpdateDriverForPlugAndPlayDevices.
LOG Event: 1, Installation was successful.
LOG Event: 0, Install completed
LOG Event: 0, Installation completed withinstall: completed successfully
WDREG utility v9.01. Build Jun 17 2007 10:40:36
Installing a non-signed driver package

8.3 Further Information

For further information about the installation on your POC-227G, including driver updates, troubleshooting guides and FAQ lists, please visit the following web resources.

Advantech websites: http://www.advantech.com
http://www.advantech.com.tw

Chapter 9

Smart Card Reader

Sections include:

- **Introduction**
- **Installation of Smart Card Driver**

9.1 Introduction

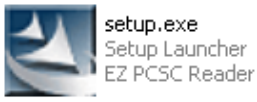
POC-227G contains the Castles EZM100PU Card Reader module.
A built-in smart card reader helps verify clinician identification

Compliant IC Card Standard:
CPU Card: Complies with ISO7816-1, 2, 3
Memory Card: Synchronous 2-line, 3-line and I2C interface

Approve:
PC/SC 1.0 Standard

9.2 Installation to the Smart Card Driver

1. Double Click "Setup.exe" found in the D:\Driver\XP\Card Reader folder. The Install dialog will appear.

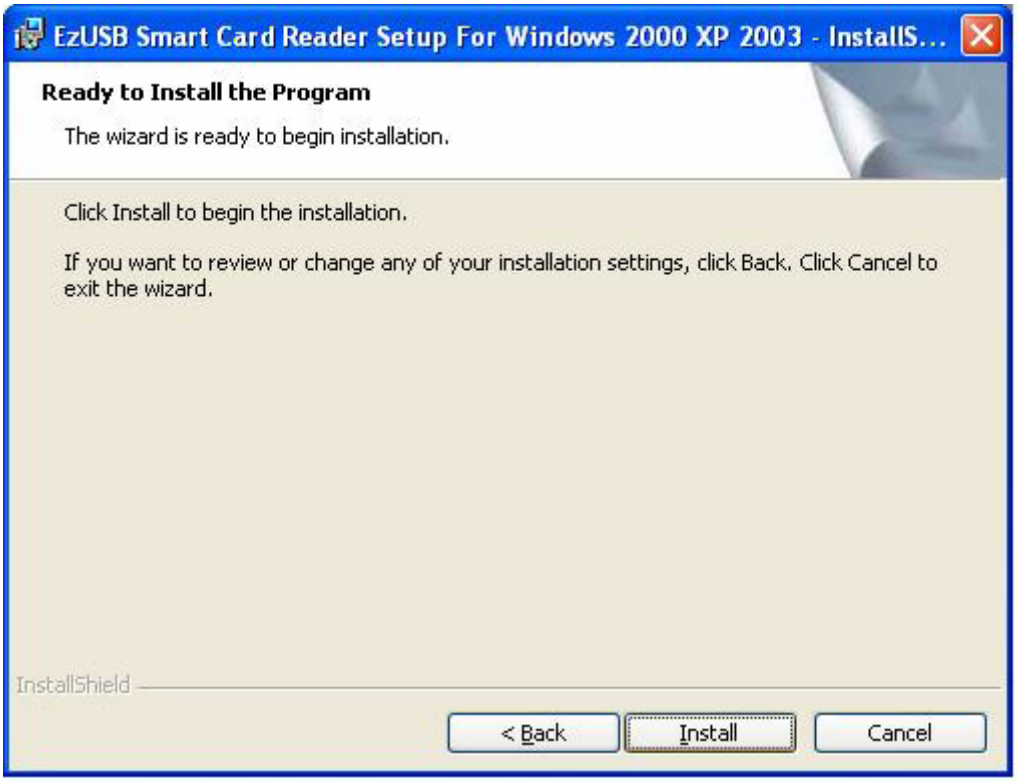


2. Select language and click "OK" to continue.

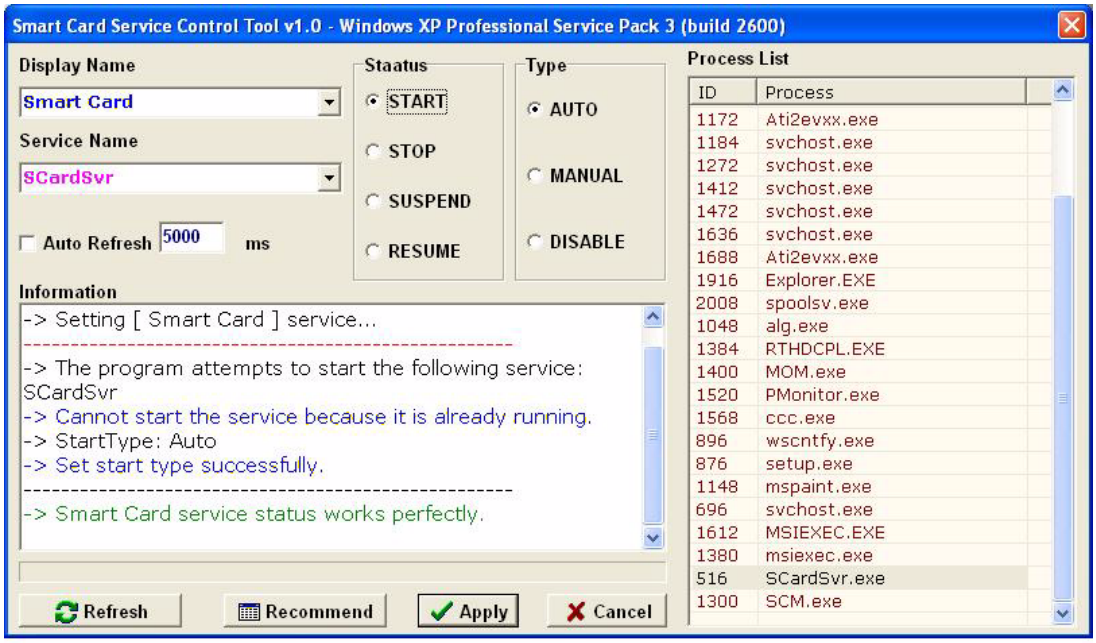
3. Click "Next" to continue.

EzUSB Smart Card Reader Setup For Windows 2000 XP 2003 - InstallS...
Welcome to the InstallShield Wizard for EzUSB Smart Card Reader Setup For Windows 2000 XP 2003
The InstallShield(R) Wizard will install EzUSB Smart Card Reader Setup For Windows 2000 XP 2003 on your computer. To continue, click Next.
WARNING: This program is protected by copyright law and international treaties.
< Back
Next >
Cancel

4. Click "Install" to continue.


EzUSB Smart Card Reader Setup For Windows 2000 XP 2003 - InstallS...
Ready to Install the Program
The wizard is ready to begin installation.
Click Install to begin the installation.
If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.
InstallShield
< Back
Install
Cancel

5. When the "Smart Card Service Control Tool v1.0" window appears, click "Cancel" to close this window.



6. When the Completion message appears, click 'Finish' to finish the install program.

EzUSB Smart Card Reader Setup For Windows 2000 XP 2003 - InstallS...
InstallShield Wizard Completed
The InstallShield Wizard has successfully installed EzUSB Smart Card Reader Setup For Windows 2000 XP 2003. Click Finish to exit the wizard.
< Back
Finish
Cancel

9.3 Further Information

For further information about the installation on your POC-227G, including driver updates, troubleshooting guides and FAQ lists, please visit the following web resources.

Advantech websites: http://www.advantech.com
http:// www.advantech.com.tw

Chapter 10

PCI Wireless Lan Card

Sections include:

- **Introduction**
- **Installation of Driver**

10.1 Introduction

The WM5200 is an optional IEEE802.11 n/b/g mini-PCI module that connects POC-227G to a wireless local area. The WM5200 is a very small module that can fit into POC-227G with a mini- PCI (Type III B slot) interface for wireless network applications. It allows users to take full advantage of POC-227G's mobility with access to real-time information and online services anytime and anywhere.

Standards:

IEEE 802.11 n/b/g standards compliant

Antenna:

Detachable antenna

Frequency Range:

802.11 n/b/g

USA (FCC): 2.412GHz ~ 2.462GHz

Europe (ETSI): 2.412GHz ~ 2.472 GHz

Japan (TELEC): 2.412GHz ~ 2.483GHz

Number of Selectable Channels:

802.11n 20MHz/40MHz ;802.11b/g

USA (FCC) 11 channels;

EU (ETSI) 13 channels;

Japan (TELEC) 13 channels

Data Rate:

802.11n: up to 300Mbps

802.11b: 1, 2, 5,5, 11Mbps

802.11g: 6, 9, 12, 18, 24, 36, 48, 54Mbps

Coverage Area:

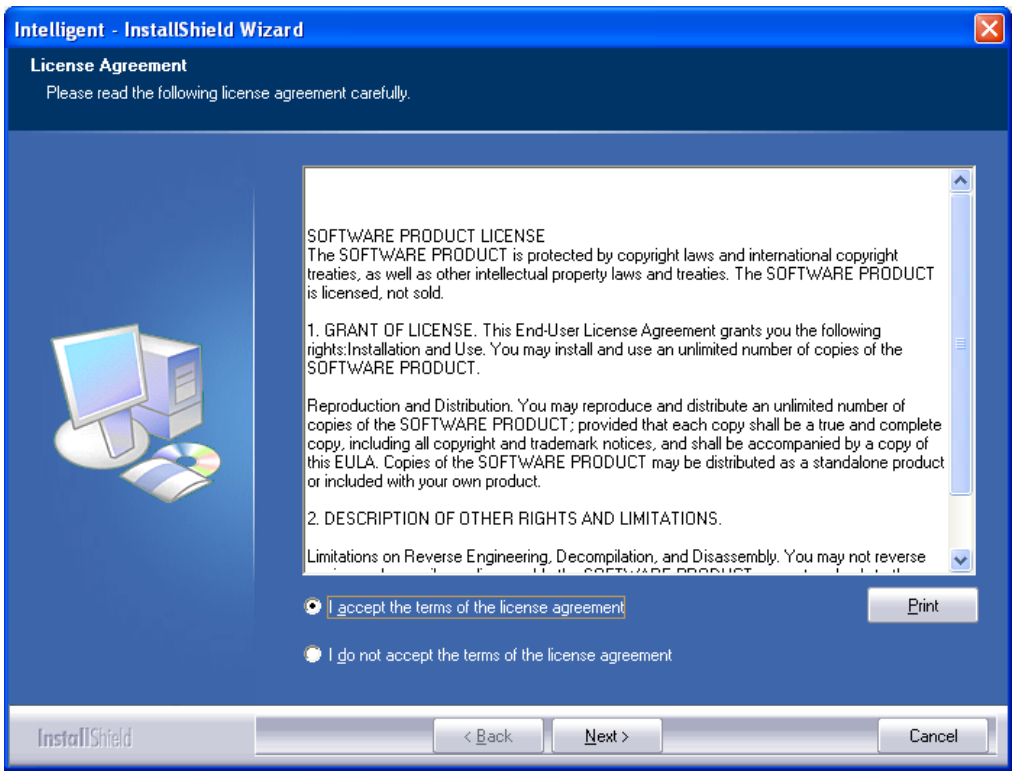
Up to 12 times faster then existing 802.11 b/g products

10.2 Installation of Driver

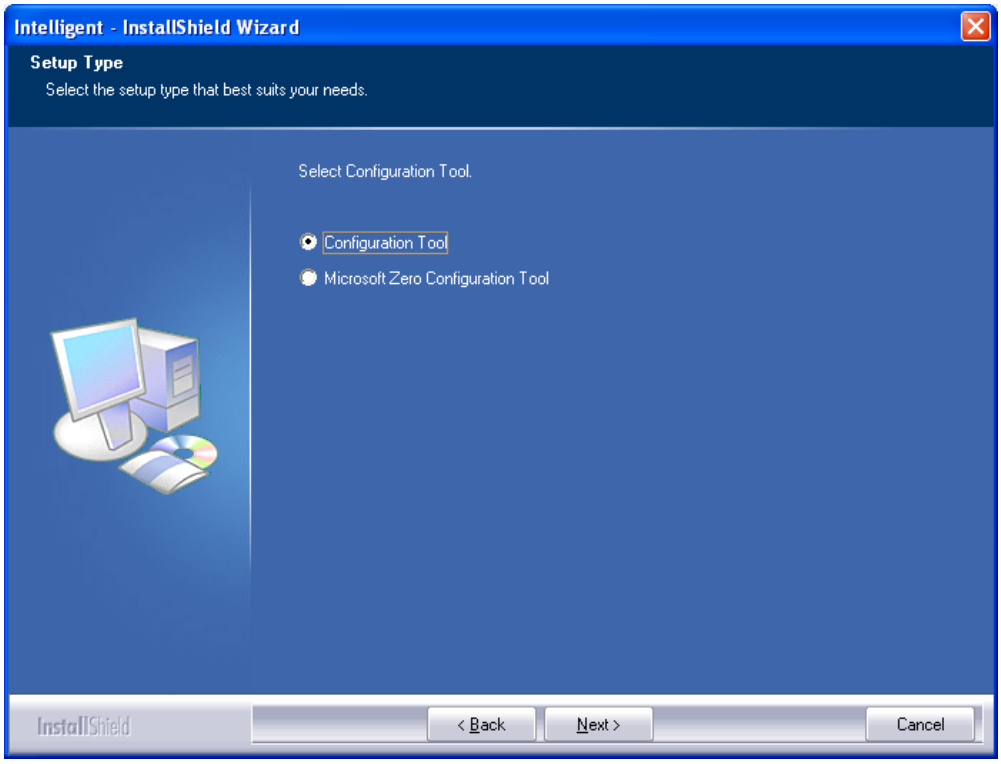
10.2.1 Install Windows Installer

1. Double Click "WM5200.exe" in D:\Driver\XP\Wireless\ folder. The Install dialog will appear.

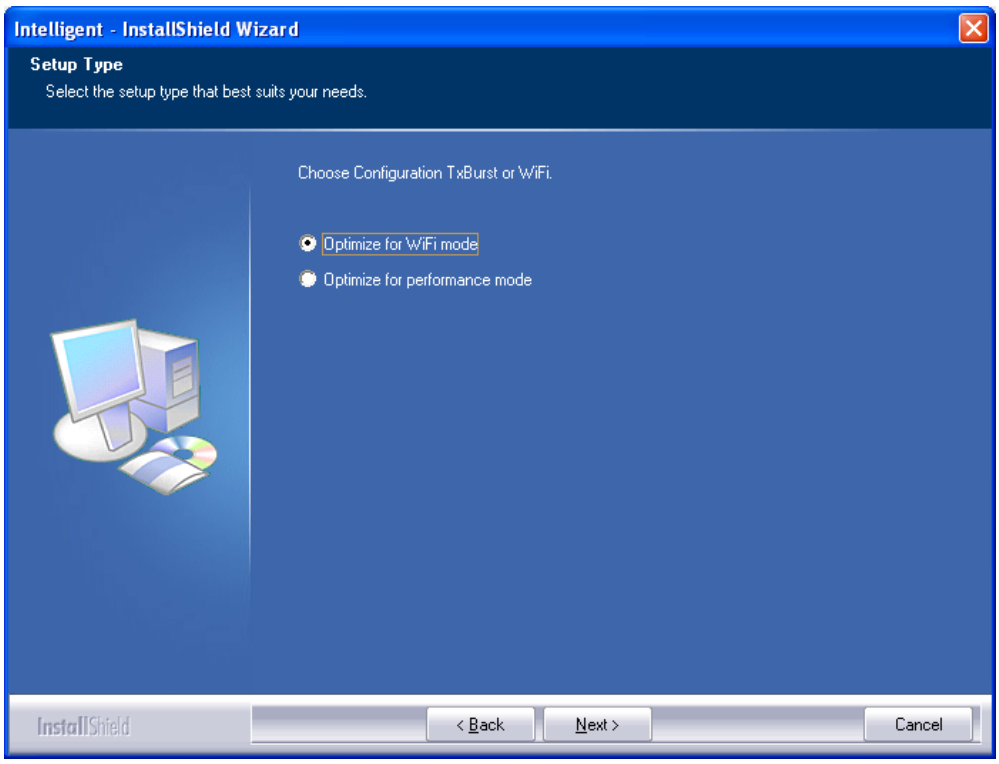
2. Read the License Agreement and click 'Yes' to proceed.


Intelligent - InstallShield Wizard
License Agreement
Please read the following license agreement carefully.
SOFTWARE PRODUCT LICENSE
The SOFTWARE PRODUCT is protected by copyright laws and international copyright treaties, as well as other intellectual property laws and treaties. The SOFTWARE PRODUCT is licensed, not sold.
1. GRANT OF LICENSE. This End-User License Agreement grants you the following rights:Installation and Use. You may install and use an unlimited number of copies of the SOFTWARE PRODUCT.
Reproduction and Distribution. You may reproduce and distribute an unlimited number of copies of the SOFTWARE PRODUCT; provided that each copy shall be a true and complete copy, including all copyright and trademark notices, and shall be accompanied by a copy of this EULA. Copies of the SOFTWARE PRODUCT may be distributed as a standalone product or included with your own product.
2. DESCRIPTION OF OTHER RIGHTS AND LIMITATIONS.
Limitations on Reverse Engineering, Decompilation, and Disassembly. You may not reverse
I accept the terms of the license agreement
I do not accept the terms of the license agreement
Print
InstallShield
< Back
Next >
Cancel

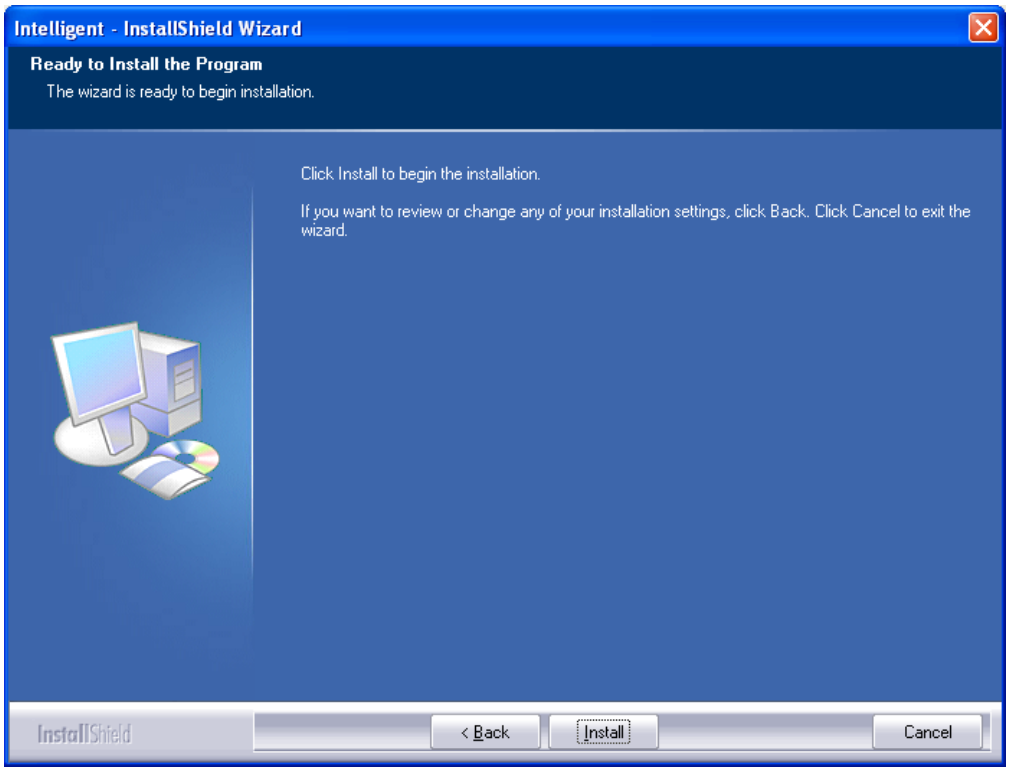
3. Click 'Next' to continue installation.



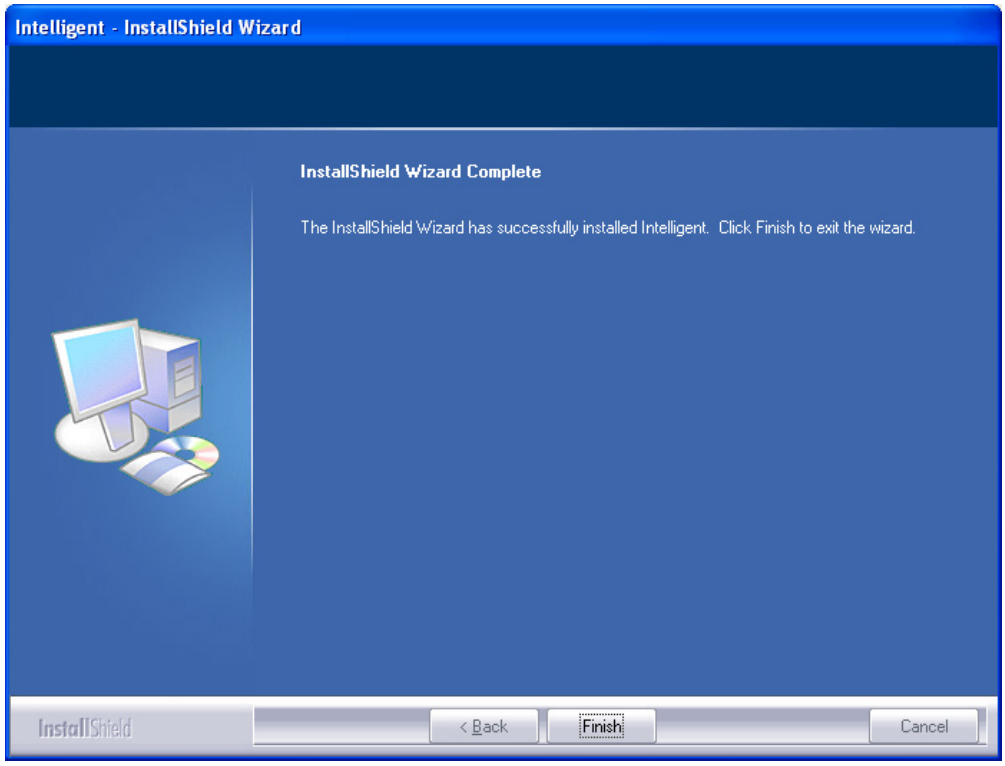
4. Click 'Next' to continue installation.



5. Click 'Install' to continue the process.


Intelligent - InstallShield Wizard
Ready to Install the Program
The wizard is ready to begin installation.
Click Install to begin the installation.
If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.
InstallShield
< Back
Install
Cancel

6. Click 'Finish' to exit the wizard.



10.3 Further Information

For further information about the installation in your POC-227G, included Driver updates, troubleshooting guides and FAQ lists please visit the following web resources.

Advantech websites: http://www.advantech.com

http://www.advantech.com.tw

Chapter 11

Utilities and Hot Fixes

Sections include:

- **Introduction**
- **Wake up by External USB Device at S3 Resume (Wake up)**

11.1 Introduction

The POC-227G system needs a specific utility or hot fix to support special functions.

11.2 Wake up by External USB Device at S3 Resume (Wake up)

POC-227G supports three different sleep (suspend) modes. They are:

1. S1: Power On Suspend: system will stop the clock, turn off the LCD backlight, but keep all power on. A user can press any key (mouse or keyboard) to wake up the system.
2. S3: Suspend to RAM: system will stop the clock, turn off most power, not including power to memory. All necessary information will be saved in memory. In this sleep mode, the system needs a Hot fix to wake up by USB mouse or keyboard.
3. S4: Suspend to Disk (Hibernation): system will stop the clock, turn off most power, including the memory power. All necessary information will be saved to hard disk. In this sleep mode, the user needs to press the power button to wake up the system.

11.2.1 Installation for Windows XP

1. Double click the "USBRG.REG" found in the D:\Driver\XP\USB folder.
2. Click “Yes” to install this registry information.
3. Click “OK” to close the successful installation information window.

Chapter 12

Operation and Safety information

Sections include:

- General Safety Guide
- Thermal
- Disconnect the Power

12.1 General Safety Guide

For your own safety and that of your equipment, always take the following precautions.

Disconnect the power plug (by pulling the plug, not the cord), from your computer if any of the following conditions exists:

- The power cord or plug becomes frayed or otherwise damaged
- You spill something into the case
- Your computer has been dropped or the case has been otherwise damaged
- You suspect that your computer needs service or repair
- You want to clean the computer or screen
- You want to remove/install any parts

Protecting Your Optical Drive

- To keep your optical drive working properly:
- Position your computer so that the drive tray doesn't bump into anything when it opens.
- Close the drive when you're not using it.
- Do not put anything on the drive tray when it is open.
- Do not touch the optical drive lens with your fingers. Do not wipe the lens with a paper towel or other abrasive surface.

12.2 Thermal

The rear metal VESA mounting hole on the POC-227G case functions as a cooling air flow inlet. The POC-227G case side vent hole serves as a cooling air flow outlet.

These air inlets and outlets transfer heat from inside the computer to the cooler air outside. Do not block these holes/vents with any soft materials.

Warning! *Do not place your POC-227G system on a pillow or other soft material when it is on, as the material may block the airflow and cause the computer to overheat.*

12.3 Disconnect the Power

The only way to disconnect power completely is to unplug the power cord. Make sure at least one end of the power cord is within easy reach so that you can unplug the computer when you need to.

Warning! *Your AC cord came equipped with a three-wire grounding plug (a plug that has a third grounding pin). This plug will fit only a grounded AC outlet. If you are unable to insert the plug into an outlet because the outlet is not grounded, contact a licensed electrician to replace the outlet with a properly grounded outlet. Do not defeat the purpose of the grounding plug.*

Warning! *Never push objects of any kind into this product through the openings in the case. Doing so may be dangerous and result in fire or a dangerous electric shock.*

Never place anything on system case before turning off computer.

Never turn on your computer unless all of its internal and external parts are in place.

Operating the computer when it is open or missing parts can be dangerous and can damage your computer.

Appendix A

MB Connector Map and Table

A.1 Mother Board and I/O Board Connector Table (Top Side)

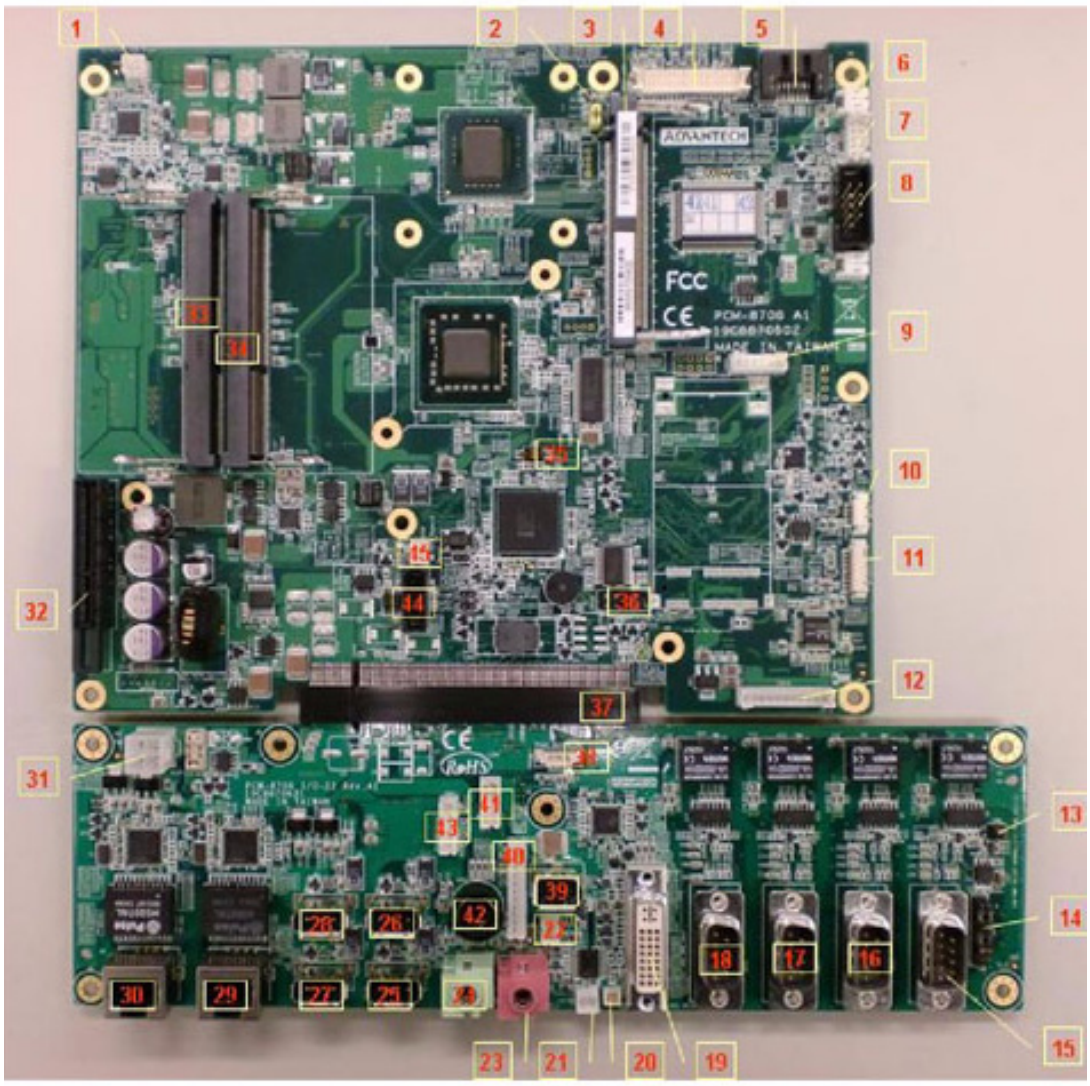
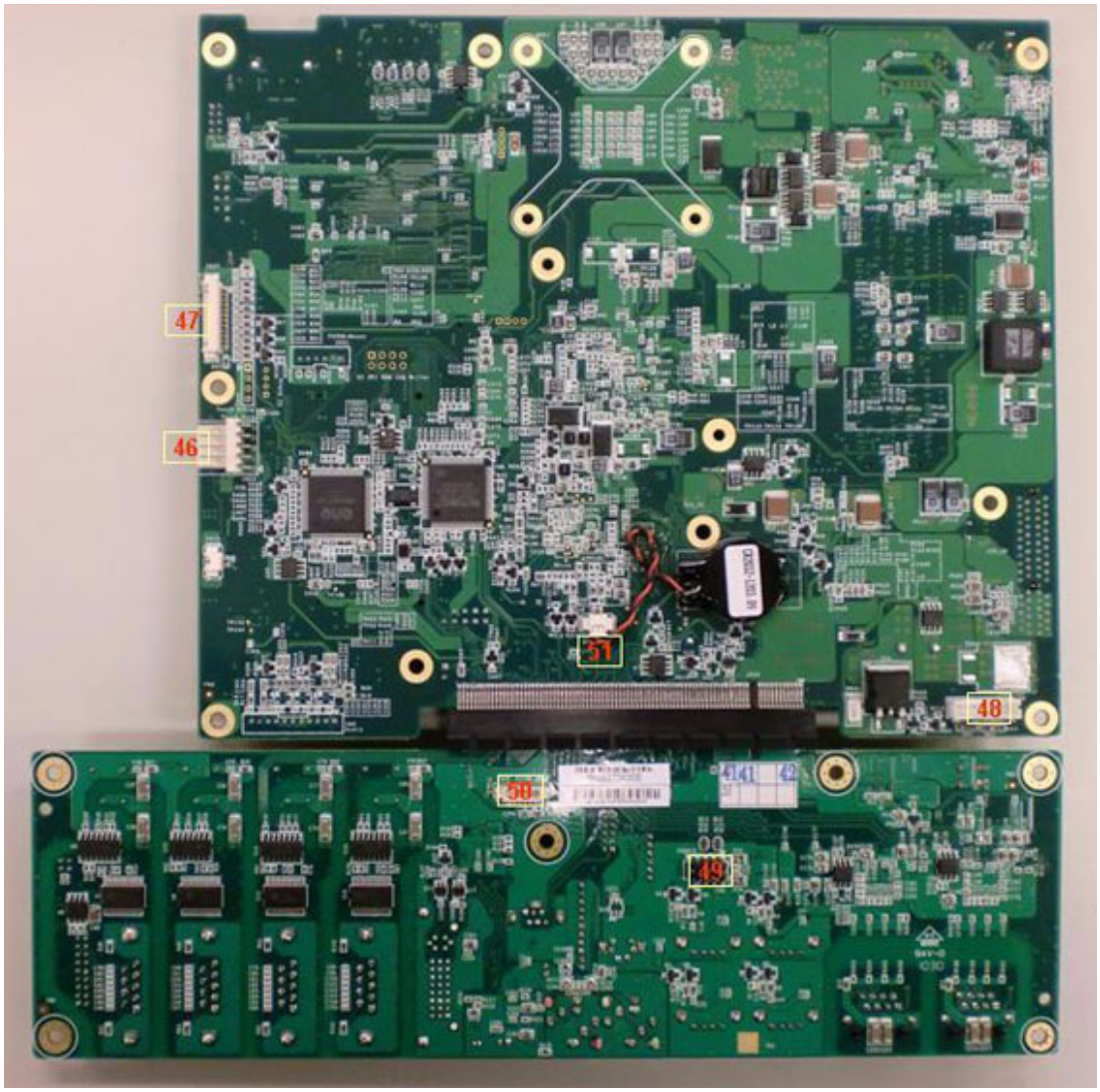


Table A.1: Mother Board and I/O Board Connector Table (Top Side)

No.	Description	No.	Description
1	5V for External USB	24	Headphone Jack
2	LVDS Power 3.3V/5V Selector	25	USB Jack (Port3)
3	Mini PCI Socket	26	USB Jack (Port2)
4	LVDS Connector	27	USB Jack (Port1)
5	SATA Connector (Port 0 For HDD)	28	USB Jack (Port0)
6	2.5” SATA HDD Power Connector	29	RJ45 Jack (LAN 2)
7	Internal USB Connector (USB7&8)	30	RJ45 Jack (LAN 1)
8	MB Internal 1394 Connector	31	12VDC Power Connector
9	MB Internal KB/MS Connector	32	PCIEx4 Slot
10	RFID Connector (USB9)	33	DDR3 SODIMM Socket 2
11	Blue Tooth Connector (USB10)	34	DDR3 SODIMM Socket 1
12	MB Internal Audio Connector (Line Out/MIC/Headphone)	35	LVDS Resolution Selector
13	COM1 RI Setting	36	Internal COM5 Header
14	COM1 RS232/422/485 Setting	37	MB to I/O Board interface
15	COM1 Jack	38	Power Button Connector
16	COM2 Jack	39	1394 Connector
17	COM3 Jack	40	I/O Board Audio Connector (Line Out/MIC/Headphone)
18	COM4 Jack	41	I/O Board Internal 1394 Connector
19	DVI-I Jack	42	PS/2 KB/MS Connector
20	Speaker Amp Gain Connector	43	I/O Board Internal KB/MS Connector
21	Left Speaker Connector	44	SATA Connector (Port 1 For ODD)
22	Right Speaker Connector	45	Slim-type ODD Power Connector
23	Microphone Jack		

A.2 Mother Board and I/O Board Connector Table (Bottom Side)



No.	Description	No.	Description
46	Resistive Touch Sensor Connector	49	Internal USB Header
47	Front Button Board Interface	50	USB Jack (Port 3)
48	LCD Backlight Inverter Connector	51	USB Jack (Port 2)

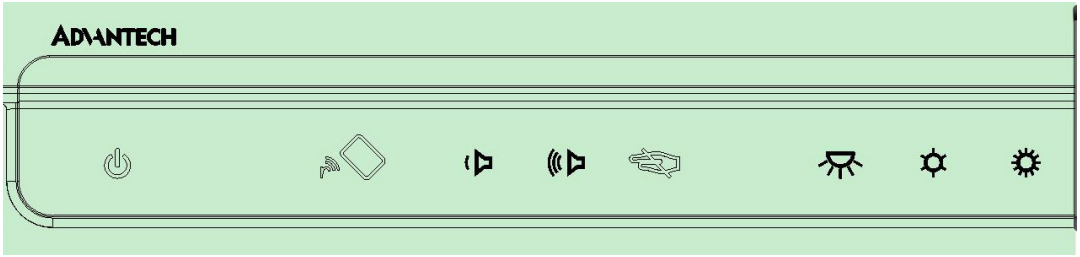
Appendix B

Front Panel Button

B.1 Introduction

POC-227G front button function description:

Front Button Map



Button Description:

Power button	Press this button to power on/off system. When system on, this icon will turn green.
Reduce volume	Press this button to reduce speaker and headphone volume
Increase volume	Press this button to increase speaker and headphone volume
Touch disable	Press this button to disable/enable touch function. When touch function is disabled, this icon will turn yellow.
Read light	Press this button to enable/disable Read light.
Reduce brightness	Press this button to reduce LCD backlight brightness
Increase brightness	Press this button to increase LCD backlight brightness

Combination Button:

One special function is the backlight off function. When you press both reduce brightness and increase brightness buttons for half a second, the LCD backlight will be turned off. And press both buttons for half second again; LCD backlight will be turn on.

When the backlight is off, POC-227G system is still running; there is no impact to running program.

This backlight off function can be used in a hospital environment.

If a doctor needs to check an X-Ray photo in a dark room environment, an operator can quickly turn off the backlight to prevent interference.

A nurse can turn off the backlight at night to prevent disturbing a sleeping patient.

Appendix C

Advanced BIOS Functions

C.1 Introduction

This section introduces the advanced functions in the POC-227G BIOS menu.

1. Power Button work in S0

   Enable/disable power button function in BIOS menu. If you disable the power button in S0 (System ON) status, the power button will not function. A user must use software to turn off the system. This function can prevent accidental shut-down of the system.

   BIOS Menu location:

   BIOS Menu - Integrated Peripherals - Onboard Device - Power Button work in S0

   Enable: Power button works when system is in S0 (System ON) status. (Default)

   Disable: Power button does not work when system in S0 (System ON) status.

2. **LCD Backlight Button**

   Enable/disable LCD Backlight button function in BIOS menu. If you disable the LCD backlight button, the button will not function. This function can prevent accidental adjustment of LCD backlight luminance.

   BIOS Menu location:

   BIOS Menu - Integrated Peripherals - Onboard Device - LCD Backlight Button

   Enable: Front LCD Backlight adjust button control function works. (Default)

   Disable: Front LCD Backlight adjust button control function does not work.

3. **Front Volume Button**

   Enable/disable front volume button function in BIOS menu. If you disable the front volume button, this button will not function. This function can prevent accidental adjustment of speaker volume.

   BIOS Menu location:

   BIOS Menu - Integrated Peripherals - Onboard Device -Front volume Button

   Enable: Front volume adjust button control function work. (Default)

   Disable: Front volume adjust button control function not work.

Appendix D

PCM-8706 Motherboard I/O Jumper Setting

D.1 Jumper Locations

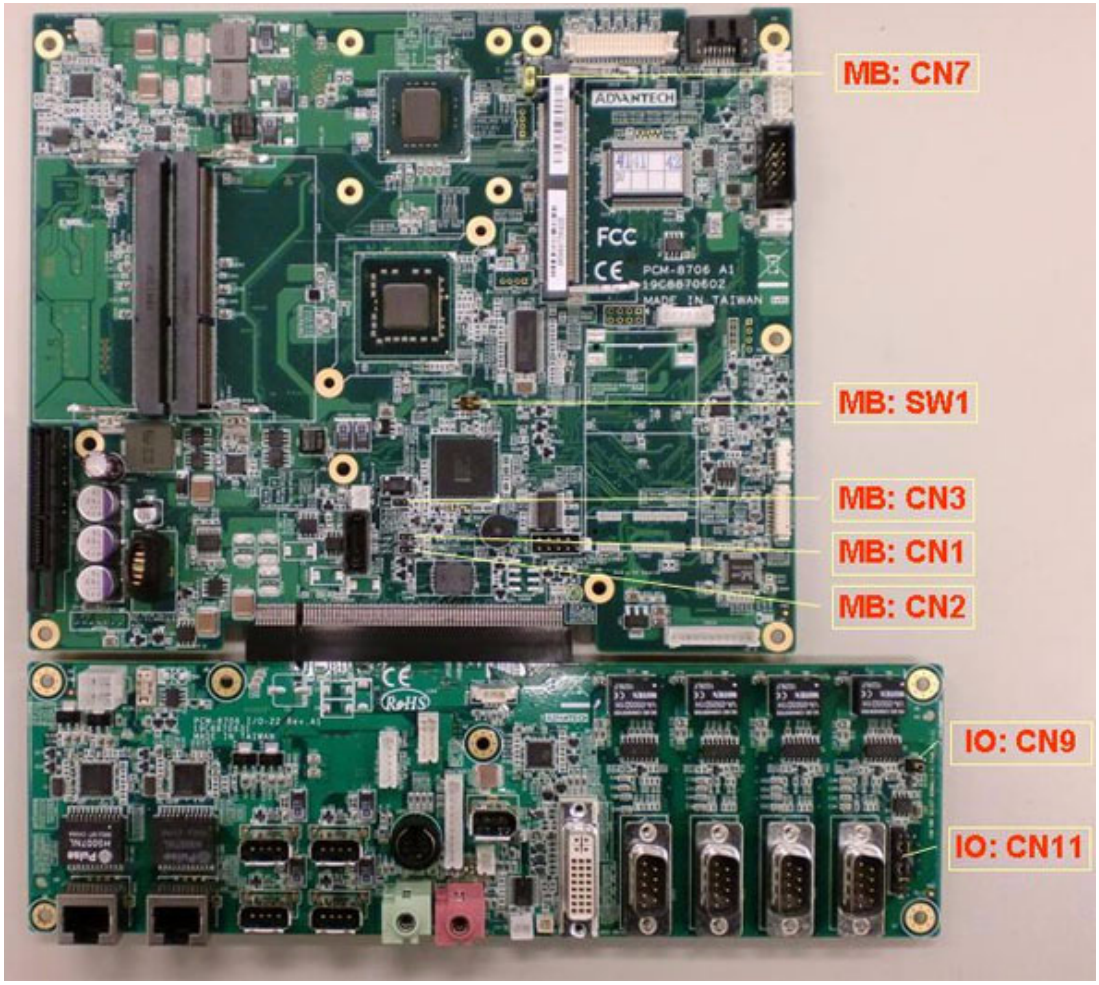


Figure D.1 PCM-8706 Top Side

D.2 Jumper Settings

Table D.1: MB CN1 Clear CMOS	
Description	Clear CMOS Setup
Setting	**Function**
(1-2)	Clear CMOS Setup
(No Connection)	Normal Operation (Default)

Table D.2: MB CN2 Clear TPM	
Description	Clear TPM Setup
Setting	**Function**
(1-2)	Clear TPM Setup
(No Connection)	Normal Operation (Default)

Table D.3: MB CN3 Reset Switch	
Description	Reset Switch
Setting	**Function**
(1-2)	Sysem Reset
(No Connection)	Normal Operation (Default)

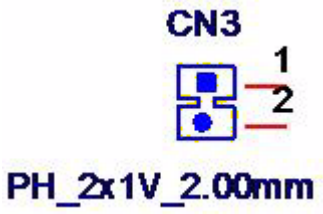


Table D.4: CN8 VBIOS Select	
Description	Select Different VBIOS Settings
Setting	**Function**
(No Connection)	VBIOS 1(Default)
(1-2)	VBIOS 2
(2-3)	VBIOS 3
(1-2),(3-4)	VBIOS 4

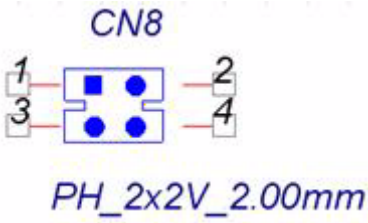


Table D.5: MB CN7 LVDS Power Select	
Description	LVDS Power 3.3V/5V Select
Setting	**Function**
(1-2)	5V(Default)
(2-3)	3.3V

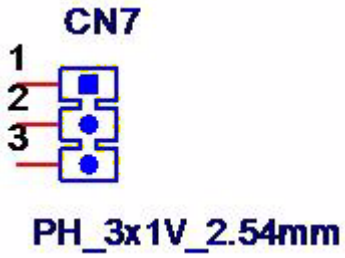


Table D.6: MB SW1 LVDS Panel Type Select	
Description	BIOS LCD Panel Type Select
Setting(1,2)	**Panel Type**
(L, H)	24-bit single channel (1024*768)
(H, L)	24-bit dual channel (1280*1024)
(H, H)	24-bit dual channel (1680*1050) (Default)

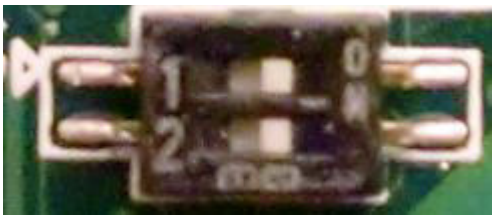


Table D.7: IO CN9 COM1 RI Setting	
Description	COM1 RI Setting
Setting	**Function**
(1-3)	5V
(3-4)	RI (Default)

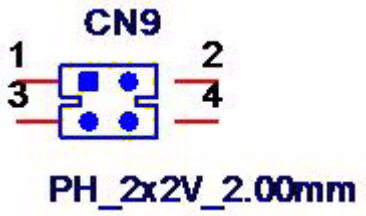
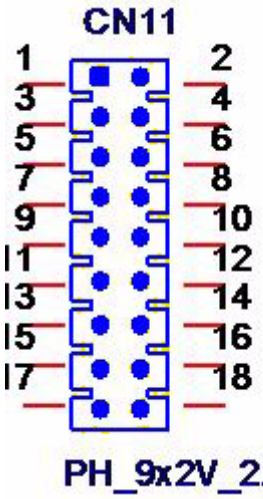
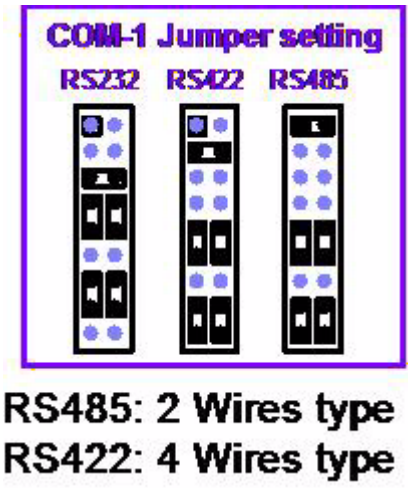


Table D.8: IO CN11 COM1 RS-232/422/485 Output Type Settings	
Description	COM1 RS-232/422/485 Output Type Setting
Setting	**Function**
(5-6), (7-9), (8-10), (13-15), (14-16)	RS-232 (Default)
(3-4), (9-11) (10-12), (15-17), (16-18)	RS-422
(1-2), (9-11) (10-12),(15-17),(16-18)	RS-485





Appendix E

Replacing POC-227G System Fuse

E.1 Introduction

POC-227G system fuse replacement instructions:

1. Unplug AC-IN power cord and wait 1~5 minutes to allow system to discharge.

2. Pry the fuseholder open with a slotted screwdriver

3. Pull out the fuseholder to expose the fuse.

4. Use a pair of tweezers to pull the fuse out.

5. Replace both fuses with a certified part (see part no. below).
   Advantech Part number: 1750000297
   Vendor: Littelfuse
   Vendor Part number: 02153.15MXP
   Fuse Rating: 3.15 A 250 V

Warning! *Do not use another fuse, even if the fuse looks similar to the old part. Only use an Advantech certified fuse.*

6. Reverse the procedure from steps 4 to 1 to install the fuse and close the fuse-holder.

Appendix F

Point-of-Care Terminal Cleaning and Disinfecting

F.1 Point-of-Care Terminal Cleaning and Disinfecting

During normal use of the POC (Point-of-Care Terminal) the device may become dirty and should be regularly cleaned.

Steps:

1. Prepare cleaning agent per manufacturer's instructions or hospital protocol.
2. Wipe the POC with a clean cloth that has been moistened in the cleaning solution
3. Wipe thoroughly with a clean cloth.

Cleaning agent list: chemical disinfectants which have been tested on the POC

No	Cleaning Agents
1	Cidex
2	Isopropyl alcohol
3	Green tinctured soap
4	Windex
5	Alcohol
6	Alcohol 70%
7	Chloride 1000 PPM

Caution!

- *Do not immerse or rinse the POC or its peripherals. If you accidentally spill liquid on the device, disconnect the unit from the power source. Contact your Biomed Department regarding the continued safety of the unit before placing it back in operation-Do not spray cleaning agent on the chassis*
- *Do not use disinfectants that contain phenol.*
- *Do not autoclave or clean the POC or its peripherals with strong aromatic, chlorinated, ketone, ether, or ether solvents, sharp tools or abrasives. Never immerse electrical connectors in water or other liquids.*

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